Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/524-3300

November 21, 1994

H. Derrick Peterson, Esq. 23401 Ridge Road Germantown, MD 20876

Re: 0310635072 -- Cook County
IPM/Kearney National
ILD085352474
Log No. C-621-M-5
RCRA Closure

Received: September 19, 1994 and September 26, 1994

Dear Mr. Peterson:

This in response to the closure certification documentation (dated September 15, 1994 and September 22, 1994), submitted by DePaul and Associates, Inc. (DAI), on behalf of Kearney National, for the hazardous waste container storage (S01) area at the above-referenced facility. This certification, signed by a representative of the owner/operator, John F. Tierney, Vice-President, Kearney-National, Inc., and an independent professional engineer, Robert D. Gardiner, indicated that the subject hazardous waste management unit had been closed in accordance with the plan approved by the Agency on January 18, 1994.

The subject hazardous waste management unit was inspected by a representative of this Agency on November 3, 1994. The inspection revealed that the unit was closed in accordance with the approved closure plan. In addition, a review of the closure certification and accompanying closure documentation report also indicates that the unit was closed in accordance with the approved closure plan. Therefore, the Agency has determined that closure of the S01 unit at the above referenced facility has apparently met the requirements of 35 IAC 725.

As a result of completing closure of the subject hazardous waste management unit:

- 1. This facility must continue to meet the requirements of 35 IAC 722 Standards Applicable to Generators of Hazardous Waste and 35 IAC 728 Land Disposal Restrictions.
- 2. Kearney National must continue to perform closure activities for the hazardous waste storage tank (S02) in accordance with the approved closure plan and subsequent modifications (IEPA Log No. C-499 and associated modifications).

IPM/Kearney National (C-621-M-5)
Page 2

Should you have any questions regarding this matter, please contact John Riekstins of my staff at 217/524-3309.

Sincerely,

Harry A. Chappel, P.E.

Hazardous Waste Branch Manager Permit Section, Bureau of Land

HAC:JR\C621M5-1.CRT

gr JK

cc: USEPA Region V -- George Hamper

USEPA Region V -- Kelley Moore

DAI -- Richard J. Vamos, Ph.D., P.E.

DAI -- Robert D. Gardiner, P.E.

bcc:

Bureau File

Maywood Region

P&RS

Todd Marvel Jerry Kuhn

John Riekstins



217/782-6762

March 6, 1992

Attn: Derrick Peterson Bryan, Cave, McPheeters, and McRoberts 700 Thirteenth Street, NW Washington, D.C. 20005-3960

Refer to: 0310635072 - Cook County

IPM/Kearney National (Infernational Products)

ILD085352474

Received: December 12, 1991 RCRA Closure: C-499-M-5

Dear Mr. Peterson:

The closure/post-closure plan for the hazardous waste underground storage tank system (SO2), submitted by DePaul and Associates on behalf of IPM/Kearney National, has been reviewed by the Agency.

The Agency has determined that IPM/Kearney National has not demonstrated that the closure activities associated with the subject tank system have met the "clean closure" requirements of 35 IAC 725.297(a). Pursuant to 35 IAC 725.297(b), since it has been determined by the Agency that this unit has not been or cannot be closed in accordance with "clean" closure standards, this facility must perform closure and postclosure care in accordance with the closure and post-closure care requirements that apply to landfills (35 IAC 725.410).

The subject submittal did not address all applicable requirements for closure and post-closure as a landfill unit. Therefore, due to the following deficiencies, this plan has been denied.

In accordance with 35 IAC 725.297(b), if it is determined that all contaminated soils cannot be practicably removed or decontaminated, the owner/operator shall close the tank system in accordance with the closure and postclosure requirements that apply to landfills (Section 725.410). Additionally, the owner/operator shall meet all of the requirements of landfills specified under 35 IAC 725 Subparts G and H.

In accordance with 35 IAC 725.410(a), at final closure of a landfill unit, the owner/operator must cover the



landfill or cell with a final cover meeting specific design criteria which are specifically outlined. IPM/Kearney National does not provide a cover design within the subject submittal, nor does it provide rationale or justification for leaving this design out of the closure and post-closure plan.

Any resubmittal of the closure and post-closure plan must include a design for a landfill cover for the area where the tank system and impacted environmental media are located which meets the applicable requirements under 35 IAC 725.410. Guidance materials which may be of use in design of the cover are as follows: Seminar publication, "Requirements for Hazardous Waste Landfill Design, Construction and Closure" (EPA/625/4-89/022); and seminar publication, "Design and Construction of RCRA/CERCLA Final Covers" (CERI 90-50).

Should IPM/Kearney National pursue the contention that a final cover meeting the requirements of 35 IAC 725.410 is not applicable to this unit, IPM/Kearney National must provide the Agency with a demonstration, including rationale and justification, that a final cover for this unit is not necessary. Whatever the final course of action (final cover design or non-applicability demonstration), IPM/Kearney National's response is subject to review and approval by the Agency.

- 2. In accordance with 724.410(b), after final closure, the owner/operator must comply with all post-closure requirements contained in Sections 725.217 through 725.220, including maintenance and monitoring throughout the post-closure care period.
  - a. The final closure and post-closure plan must consist of a complete and detailed description of how IPM/ Kearney National plans to monitor, report and maintain the landfill unit in accordance with the requirements of Subparts F, L and N in accordance with 35 IAC 725.217(a).
  - b. The final closure and post-closure plan must consist of a complete and detailed description of how the security provisions of 725.114 will be continued to insure protection of human health and the environment in accordance with the requirements of 35 IAC 725.217(b).
  - c. The final closure and post-closure plan must consist



of a complete and detailed description of how the subject property will be used in order that the final cover, liner(s), or any other components of any containment system are not disturbed in accordance with 35 IAC 725.217(c).

- d. The final closure and post-closure plan must consist of a complete and detailed description of how IPM/Kearney National will comply with the notification requirements specifically outlined in 35 IAC 725.219.
- e. The final closure and post-closure plan must provide a complete and detailed description of how the provisions of 35 IAC 725.218 will be met during the closure and post-closure care periods.
- f. The final closure and post-closure plan must provide a complete and detailed description of how the provisions of 35 IAC 725 Subpart H, Financial Requirements, will be met during the closure and post-closure care periods. All relevant financial information and instruments required must be provided within the closure and post-closure plan.

The subject closure and post-closure care plan did not provide information on how IPM/Kearney National will comply with these regulations and requirements during the closure and post-closure care period. These issues must be addressed in any subsequent facility closure and postclosure submittal, and must be of sufficient detail to meet the minimum applicable information requirements of Sections D and E of the Agency's RCRA Part B Permit Application Decision Guide. A copy of this document is attached for reference purposes. It is hereby noted that any future facility closure and post-closure submittals are subject to review and approval by the Agency. IPM/Kearney National pursue the contention that any of the above regulations are not applicable to this landfill unit, IPM/Kearney National must provide the Agency with a demonstration, including rationale and justification, that these regulations are not necessary for closure and post-closure in accordance with the referenced regulations. Whatever the final course of action (demonstration of compliance or non-applicability demonstration), IPM/Kearney National's response is subject to review and approval by the Agency.

3. In accordance with 35 IAC 725.218(g), the post-closure



plan and length of the post-closure care period may be modified at any time prior to the end of the post-closure care period by providing a petition, meeting the criteria as outlined in 35 IAC 725.218(g)(1) or (2), to the Agency for review and approval.

Additionally, in accordance with 35 IAC 725.218(g)(2)(b), the Agency has the authority to modify the post-closure plan to include, where appropriate, the temporary suspension rather than permanent deletion of one or more post-closure care requirements. At the end of the specified period of suspension, the Agency would then determine whether the requirement(s) should be permanently discontinued or reinstated to prevent threats to human health and the environment.

Should IPM/Kearney National seek temporary suspension of one or more post-closure care requirements, a demonstration, including rationale and justification that suspension of the subject requirement is protective of human health and the environment must be provided. These demonstrations are subject to Agency review and approval.

- 4. Classification of the groundwater at your facility must be made in accordance with 35 Ill. Adm. Code Part 620 Groundwater Quality Standards. The soil and groundwater cleanup objectives, specified in the December 27, 1990 closure plan modification from the Agency, may be subject to change n order to insure the cleanup objectives are in compliance with the new groundwater quality standards. Therefore, the Agency will assume the groundwater beneath the hazardous waste underground storage tank system is of Class I quality, as defined in Section 620.210, unless a hydrogeologic characterization (i.e., soil boring logs, water well logs, pump tests, etc.) is performed to demonstrate another classification is appropriate. This hydrogeological characterization must be submitted to the Agency for review and approval by April 15, 1992.
- 5. In order to allow for a more complete closure and postclosure plan resubmittal, the Agency provides the following comments regarding specific proposals within the subject submittal.
  - a. Page 10 of the subject submittal states that if breakthrough of the carbon absorption system is detected, the carbon unit will be replaced. However, the subject plan did not provide the criteria for determination of whether breakthrough has occurred.



Since breakthrough of the carbon units is an integral indicator of the effectiveness of the remediation procedures, the trigger mechanism for determination of carbon unit breakthrough (e.g., effluent concentration of volatile organics) should be identified.

- b. Page 10 of the subject submittal provides a cost estimate for the closure and post-closure care period. In accordance with 35 IAC 725.244, the owner/operator shall have a detailed estimate of the cost of post-closure monitoring and maintenance of the facility in accordance with the applicable post-closure regulations in 35 IAC Sections 725.217 through 725.220 and 725.410. The post-closure care cost estimate provided did not provide costs for compliance with all of the requirements for post-closure care as listed in the above regulations (e.g., cost of RCRA cap, cost of compliance with all requirements of 35 IAC 725.218, etc.). Therefore, the cost estimate provided does not meet the minimum requirements of the regulations.
- c. The proposal to delete deed notation requirements is not acceptable as proposed. Deed notation requirements could be temporarily deferred, upon Agency approval, until it is determined that the remediation systems cannot effectively remediate soils and groundwater to facility cleanup objectives. In addition, the property must not be offered for sale without full disclosure of the on-going environmental remediation activities. Any proposal must demonstrate that a delay will not increase the potential hazard to human health or the environment.
- 6. The Agency hereby approves the proposal to install the new Fractured Limestone Series groundwater monitoring well, designated as MW-18D. This new well should be installed in accordance with applicable Agency procedures. Extra precautions should be taken during well installation (e.g., double or triple well casing) as appropriate to avoid cross contamination between water bearing zones. The Agency may require additional well installations in the future as needed to determine the extent of groundwater contamination or to demonstrate the effectiveness of the remediation system.
- 7. The Agency has reviewed the proposed Plan for Periodic Evaluation of Soil Vapor Extraction System Effectiveness.



This plan is not acceptable to the Agency due to the deficiencies noted below:

- IPM/Kearney National proposes to use modified Method TO-14 to analyze the soil gas samples in laboratory analyses. They state that the principle modification of Method TO-14 will be to use 3-liter Tedlar (i.e., trade name for polyvinyl fluoride) bags instead of stainless steel canisters as sample collectors. This modification is not acceptable to the Agency. Tedlar bags presents some potential problems including photodegradation of contaminants due to exposure to light and diffusion of contaminant through the Tedlar material. In addition, the chemical similarity of polyvinyl fluoride to polyvinyl chloride suggests that Tedlar may induce some analytical interference due to sorption of organic contaminants. The Agency recommends use of the unmodified TO-14 method, using the stainless steel canisters, of ambient air sampling, primarily for the reasons discussed above.
- b. The proposal to use laboratory analysis and field monitoring with a Photoionization Detector (PID) to measure soil gas concentrations as part of their demonstration of the effectiveness of the SVE system is not acceptable to the Agency as proposed.

IPM/Kearney intends to calibrate the PID by conducting both laboratory analysis and PID on samples collected from each extraction well during the first monitoring period. Subsequently, they intend to use only the PID to quantify the extracted soil gas concentration from each well on a monthly They also propose to recalibrate the PID semi-annually, using a minimum of four extracted soil gas samples. Presumedly, though it is not specified in their proposal, the mean concentrations of laboratory analysis of samples will be compared to the mean concentrations determined by the PID to come up with a conversion factor. There are some problems with this proposal. First, conversion factors can be developed in this manner for any two sets of values, regardless of whether there is any relationship In order to determine the between those data sets. validity of data conversion, correlation analysis needs to be conducted. IPM/Kearney National should calculate the Pearson correlation coefficient to assess the strength of the relationship between data



sets, and should also conduct a t-test to determine whether the relationship is significant.

Another potential problem is that recalibration could be based on as few as only four samples. Since recalibration will be based upon a smaller sample size, our confidence in the accuracy of raw data conversion will not be as strong. In addition, while calibrated and recalibrated data may yield more accurate estimates of actual soil gas concentrations, raw (uncalibrated) PID data may yield more accurate estimates of the rate of decline in soil gas concentrations. Both calibrated/recalibrated and raw PID data should be reported.

A complete closure and post-closure plan addressing the deficiencies noted above, must be submitted to the Agency for review and approval by no later than May 1, 1992. Failure to submit a revised plan by that date will be considered noncompliance with the interim status standards of 35 IAC Part 725, Subpart G - Closure and Post-Closure, and Subpart H -Financial Requirements, and will result in appropriate enforcement actions.

Should you have any questions regarding this matter, please contact Eric Minder or Geordie Smith at 217/782-6762.

Very truly yours,

Euron M. Easter 43 Lawrence W. Eastep, P.E., Manager

Permit Section

Division of Land Pollution Control

Attachment

USEPA Region V - George Hamper

DePaul and Associates - Thomas DePaul

Division File

Maywood Region

ROMS

Jim Moore Amy Dragovich Eric Minder



USEPA

Received: April 1, 1991

April 4, 1991 May 17, 1991 June 5, 1991

Log No.: C-499-M-3

Refer to: 0310635072 - Cook County

International Products and Mfg. Co.

ILD085352474 RCRA Closure

June 26, 1991

Revised: July 10, 1991

International Products and
Manufacturing Company
210 West Oakton
Des Plaines, Illinois 60017-5083

#### Gentlemen:

The closure plan modification request submitted by ASI Technologies on behalf of International Products and Manufacturing Company (IPM) has been reviewed by this Agency. Your final closure plan to close the hazardous waste storage tank (SO2) is hereby approved subject to the following conditions and modifications.

1. When closure is complete the owner or operator must submit to the Agency certification both by the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan.

The attached closure certification form must be used. Signatures must meet the requirements of 35 Ill. Adm. Code Section 702.126. The independent engineer should be present at all critical, major points (activities) during the closure. These might include soil sampling, soil removal, backfilling, final cover placement, etc. The frequency of inspections by the independent engineer must be sufficient to determine the adequacy of each critical activity. Financial assurance must be maintained for the units approved for closure herein until the Agency approves the facility's closure certification.

The Illinois Professional Engineering Act (Ill. Rev. Stat., Ch. 111, par. 5101 etc. seq.) requires that any



person who practices professional engineering in the State of Illinois or implies that he (she) is a professional engineer must be registered under the Illinois Professional Engineering Act (Par. 5101, Sec. 1). Therefore, any certification or engineering services which are performed for a closure plan in the State of Illinois must be done by an Illinois P.E.

Plans and specifications, designs, drawings, reports, and other documents rendered as professional engineering services, and revisions or the above, must be sealed and signed by a professional engineer in accordance with par. 5119, sec. 13.1 of the Illinois Professional Engineering Act.

As part of the closure certification, to document the closure activities at your facility, please submit a Closure Documentation Report which includes:

- a. The volume of waste and waste residue removed. The term waste includes wastes resulting from decontamination activities.
- b. A description of the method of waste handling and transport.
- c. The waste manifest numbers.
- d. Copies of the waste manifests.
- e. A description of the sampling and analytical methods used.
- f. A chronological summary of closure activities and the cost involved.
- g. Color photo documentation of closure. Document conditions before, during and after closure.
- h. Tests performed, methods and results.
- i. A copy of the record describing the type, location and quantity of hazardous wastes disposed of within the disposal unit of the facility in accordance with 35 IAC 725.219(a).
- j. A copy of the notation on the deed (or other instrument normally examined during title searches) which includes



the notification requirements of 725.219(b).

The original and two (2) copies of all certifications, logs or reports which are required to be submitted to the Agency by the facility should be mailed to the following address:

Illinois Environmental Protection Agency Division of Land Pollution Control - #24 Permit Section 2200 Churchill Road Post Office Box 19276 Springfield, Illinois 62794-9276

2. Following Agency approval of the final design of the soil vapor extraction system, installation, and operation of the soil vapor extraction system for at least six months. installation of the additional groundwater monitoring wells required in Condition 6 below, and installation and operation of the purge well system for a period of at least six months, the Agency shall consider this facility to have completed closure activities. Closure certification and the Closure Documentation Report, as referenced in Condition 1 above, must be provided to the Agency within sixty (60) days of completion of closure activities, or by July 1, 1992, whichever is earlier. Upon Agency approval of the facility's closure certification, the Agency will consider this facility to be in post-closure and subject to all applicable post-closure requirements. A post-closure plan, prepared in accordance with the requirements of 35 IAC 725.216 through 725.220, 725.297, and 725.410, must be provided no later than December 1, 1991, for Agency review and approval.

Should IPM wish to pursue "clean" closure, Agency established cleanup objectives for facility soils and groundwater as listed in our letter dated December 27, 1990, must be achieved. Upon meeting RCRA clean closure requirements, IPM may petition the Agency and Illinois Pollution Control Board to reduce the time required for post-closure care in accordance with 35 IAC 725.218(g).

3. No later than 60 days after completion of the established post-closure care period for the hazardous waste unit, the owner or operator shall submit to the Agency, by registered mail, a certification that the post-closure care period for the hazardous waste unit was performed in accordance with the approved closure plan per 35 IAC 725.220 (as amended February 5, 1987).



- Owners and operators of waste management units which received wastes after July 26, 1982 or that certified closure according to 35 IAC 725.215 after January 26, 1983 are required to submit an application for a Post-Closure Permit meeting the requirements of 35 IAC 724 upon request from the IEPA unless it is demonstrated that closure by removal has been achieved.
- The proposed purge well system is tentatively approved, based upon the ability of the IPM to demonstrate the effectiveness of the purge wells to successfully remediate contaminated groundwater and control contaminant migration. These demonstrations must be made on a quarterly basis in accordance with Condition 12 of the Agency's December 27, 1990 closure plan modification approval letter.
- The proposed groundwater monitoring system is conditionally approved as modified below. The following monitoring wells must be sampled and samples analyzed on a quarterly basis.

#### UPPER WATER BEARING ZONE

MW-2	MW-4B	MW-18B
8-WM	MW-15B	MW-18B1
MW-9	MW-17B	MW-18B2
MW-12	MW-13	MW-20B

#### LOWER WATER BEARING ZONE

MW-4A	MW-14A	MW-15A
MW-17A	MW-18A	MW-19A
MW-20A	MW-22A	MW-23C
MW-14C	MW-18C	

FRACTURED LIMESTONE ZONE (D-Series Wells)

MW-14D

Additional D-Series wells are needed to determine the extent of groundwater contamination in the fractured limestone zone. Of the three existing D-Series wells, only MW-14D is located within the projected contaminant plume boundaries in the water bearing zones closer to land surface. It appears that MW-14D is located near the northwestern contaminant plume limit defined in the "Lower Water Bearing Zone". At least two or three additional



wells are needed to define the extent of contamination in this zone. These additional wells should be located within the lateral boundaries of the contaminant plume identified in the Lower Water Bearing Zone, and they must be included in the quarterly monitoring program. The additional fractured limestone zone wells should be installed and developed by no later than September 1, 1991. As-built well construction logs shall be submitted to the Agency within 30 days of their installation.

- In order to meet the requirements of the approved closure plan, IPM must provide the following information to the Agency for review and approval. The information requested in Conditions 7b. and c. below must be provided to the Agency within 30 days of Agency approval of final design of the proposed soil vapor extraction system.
  - A final design for the proposed soil vapor extraction system. This final design should include design rationale, parameters, and dimensions for all equipment and controls of the system. Locations of all injection and extraction wells must be shown on a facility map scaled to 1 inch no greater than 200 feet. All extraction and injection wells installed on-site must be described on a properly filled out Agency well completion report. The final design should describe all monitoring and maintenance inspection schedules and frequencies, and how all inspections will be reported and maintained.
  - A description of the criteria which will be used to b. determine the effectiveness of the soil vapor extraction system. This determination must be based upon system monitoring data and/or soil analytical results. Determinations based purely upon theory will not be considered by the Agency due to the apparent difficulty in establishing valid geologic/hydrogeologic data from this site.

The determination of the effectiveness of the soil vapor extraction system must include a description of all relevant parameters which will be reviewed for evaluation of the system, all sampling procedures and analytical methods used, and justification for the criteria to be selected for this determination. effectiveness determination should be carried out on a set frequency. Therefore, a schedule for these determinations must be included in this proposal.



c. Based upon the proposed soil vapor extraction system effectiveness determination required in Condition 7b. above, IPM must provide the Agency with graphic representation (drawing) of the soil contamination plume after each assessment made. This map must be of the scale of 1 inch no greater than 200 feet, and should be of sufficient detail to depict the entire plume in relation to the IPM facility.

Since the second quarterly report is to be submitted to finalize the design of the soil vapor extraction system, this report must be in the form of a modification request to the approved closure plan. All further reports, unless modifying either the groundwater collection/monitoring system operations or the soil vapor extraction system operations, should be submitted as quarterly reports, rather than as closure modifications.

- 8. All soil boring cuttings, purged groundwater from well sampling or purging, equipment decontamination wash and rinsates, etc., must be managed as hazardous wastes, unless proved non-hazardous in accordance with 35 IAC 721.103 (c) and (d). IPM, being the generator of these wastes must adequately classify these wastes as either hazardous or non-hazardous. In any event, these materials must be managed as special wastes.
- 9. The purge wells constructed as continuously screed wells must be purged on a continuous basis during the entire extent of cleanup operations to ensure that cross-contamination by the more contaminated aquifers to the aquifers of lower contamination does not occur. Upon achievement of the Agency cleanup objectives or termination of purging, these continuously screened wells must be removed or plugged.
- 10. IPM must analyze for the parameter 1,1,1,2tetrachloroethane in all further groundwater sampling and
  analysis events at this facility. The January 1991
  sampling and analysis event did not provide analytical
  results for this parameter.
- 11. Since additional parameters were detected in the latest groundwater sampling event at this facility, soil and groundwater cleanup objectives for the parameters bromodichloromethane, chloroform, 1,1-dichloroethene, dibromochloromethane and trans-1,2-dichloroethene will be



established by the Agency at a later date. The Agency will notify IPM upon the establishment of these cleanup objectives.

- Upon final design approval, installation, and initiation 12. of operation of the soil vapor extraction system, the Agency will consider closure activities to be completed at this site, and this facility will be considered to be subject to post-closure requirements. Therefore, a closure extension time of 3.5 years will not be applicable for this facility. Should this facility wish to pursue clean closure, upon achieving the Agency cleanup objectives, IPM can petition the Agency and Illinois Pollution Control Board for relief from further postclosure activities.
- 13. The Agency is in receipt of the financial assurance documents submitted for this facility. These documents are currently under review. The Agency will notify this facility of any deficiencies with the submittal upon completion of the review.

If you have any questions regarding this matter, please contact Eric Minder at 217/782-6762.

Very truly yours,

aurence a

Lawrence W. Eastep, P.E., Manager

Permit Section

Division of Land Pollution Control

#### Attachment

Maywood Region cc:

Division File - RCRA Closure USEPA-Region V - George Hamper

Division of Legal Counsel

Andy Vollmer - Planning and Reporting

ASI Technologies - Curtis Slocum

Geordie Smith - Permits Eric Minder - Permits

RPMS



#### ATTACHMENT

This statement is to be completed by both the responsible officer and by the registered professional engineer upon completion of closure. Submit one copy of the certification with original signatures and three additional copies.

## Closure Certification Statement

Closure Log C-499-M-3

The hazardous waste management SO2 unit at the facility described in this document has been closed in accordance with the specifications in the approved closure plan. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

USEPA ID Number	Facility Name
Signature of Owner/Operator	Name and Title
Seminarior (Seminarior Company) and the seminarior of the seminari	
Signature of Registered P.E.	Name of Registered P.E. and Illinois Registration Number

Date

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EM:



Received: April 1, 1991

April 4, 1991 May 17, 1991 June 5, 1991

Log No.: C-499-M-3

Refer to: 0310635072 - Cook County

International Products and Mfg. Co.

ILD085352474 RCRA Closure

June 26, 1991

International Products and
Manufacturing Company
210 West Oakton
Des Plaines, Illinois 60017-5083

#### Gentlemen:

The closure plan modification request submitted by ASI Technologies on behalf of International Products and Manufacturing Company (IPM) has been reviewed by this Agency. Your final closure plan to close the hazardous waste storage tank (SO2) is hereby approved subject to the following conditions and modifications.

1. When closure is complete the owner or operator must submit to the Agency certification both by the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan.

The attached closure certification form must be used. Signatures must meet the requirements of 35 Ill. Adm. Code Section 702.126. The independent engineer should be present at all critical, major points (activities) during the closure. These might include soil sampling, soil removal, backfilling, final cover placement, etc. The frequency of inspections by the independent engineer must be sufficient to determine the adequacy of each critical activity. Financial assurance must be maintained for the units approved for closure herein until the Agency approves the facility's closure certification.

The Illinois Professional Engineering Act (Ill. Rev. Stat., Ch. 111, par. 5101 et. seq.) requires that any person who practices professional engineering in the State



of Illinois or implies that he (she) is a professional engineer must be registered under the Illinois Professional Engineering Act (Par. 5101, Sec. 1). Therefore, any certification or engineering services which are performed for a closure plan in the State of Illinois must be done by an Illinois P.E.

Plans and specifications, designs, drawings, reports, and other documents rendered as professional engineering services, and revisions or the above, must be sealed and signed by a professional engineer in accordance with par. 5119, sec. 13.1 of the Illinois Professional Engineering Act.

As part of the closure certification, to document the closure activities at your facility, please submit a Closure Documentation Report Which includes:

- The volume of waste and waste residue removed. The term waste includes wastes resulting from decontamination activities.
- A description of the method of waste handling and b. transport.
- The waste manifest numbers.
- Copies of the waste manifests.
- A description of the sampling and analytical methods e. used.
- A chronological summary of closure activities and the cost involved.
- Color photo documentation of closure. Document conditions before, during and after closure.
- Tests performed, methods and results. h.
- A copy of the record describing the type, location and quantity of hazardous wastes disposed of within the disposal unit of the facility in accordance with 35 IAC 725.219(a).
- A copy of the notation on the deed (or other instrument normally examined during title searches) which includes the notification requirements of 725.219(b).



The original and two (2) copies of all certifications, logs or reports which are required to be submitted to the Agency by the facility should be mailed to the following address:

Illinois Environmental Protection Agency Division of Land Pollution Control - #24 Permit Section 2200 Churchill Road Post Office Box 19276 Springfield, Illinois 62794-9276

Following Agency approval of the final design of the soil vapor extraction system, installation, and operation of the soil vapor extraction system for at least six months, installation of the additional groundwater monitoring wells required in Condition 6 below, and installation and operation of the purge well system for a period of at least six months, the Agency shall consider this facility to have completed closure activities. Closure certification and the Closure Documentation Report, as referenced in Condition 1 above, must be provided to the Agency within sixty (60) days of completion of closure activities, or by July 1, 1992, whichever is earlier. Upon Agency approval of the facility's closure certification, the Agency will consider this facility to be in post-closure and subject to all applicable post-closure requirements. A post-closure plan, prepared in accordance with the requirements of 35 IAC 725.216 through 725.220, 725.297, and 725.410, must be provided no later than December 1, 1991, for Agency review and approval.

Should IPM wish to pursue "clean" closure, Agency established cleanup objectives for facility soils and groundwater as listed in our letter dated December 27, 1990, must be achieved. Upon meeting RCRA clean closure requirements, IPM may petition the Agency and Illinois Pollution Control Board to reduce the time required for post-closure care in accordance with 35 IAC 725.218(g).

3. No later than 60 days after completion of the established post-closure care period for the hazardous waste unit, the owner or operator shall submit to the Agency, by registered mail, a certification that the post-closure care period for the hazardous waste unit was performed in accordance with the approved closure plan per 35 IAC 725.220 (as amended February 5, 1987).



- Owners and operators of waste management units which received wastes after July 26, 1982 or that certified closure according to 35 IAC 725.215 after January 26, 1983 are required to submit an application for a Post-Closure Permit meeting the requirements of 35 IAC 724 upon request from the IEPA unless it is demonstrated that closure by removal has been achieved.
- The proposed purge well system is tentatively approved, based upon the ability of the IPM to demonstrate the effectiveness of the purge wells to successfully remediate contaminated groundwater and control contaminant migration. These demonstrations must be made on a quarterly basis in accordance with Condition 12 of the Agency's December 27, 1990 closure plan modification approval letter.
- The proposed groundwater monitoring system is conditionally approved as modified below. The following monitoring wells must be sampled and samples analyzed on a quarterly basis.

#### UPPER WATER BEARING ZONE

MW-2	MW-4B	MW-18B
MW-8	MW-15B	MW-18B1
MW-9	MW-17B	MW-18B2
MW-12	MW-13	MW-20B

#### LOWER WATER BEARING ZONE

MW-4A	MW-14A	MW-15A
MW-17A	MW-18A	MW-19A
MW-20A	MW-22A	MW-23C
MW-14C	MW-18C	

FRACTURED LIMESTONE ZONE (D-Series Wells)

MW-14D

Additional D-Series wells are needed to determine the extent of groundwater contamination in the fractured limestone zone. Of the three existing D-Series wells, only MW-14D is located within the projected contaminant plume boundaries in the water bearing zones closer to land surface. It appears that MW-14D is located near the northwestern contaminant plume limit defined in the "Lower Water Bearing Zone". At least two or three additional wells are needed to define the extent of contamination in



this zone. These additional wells should be located within the lateral boundaries of the contaminant plume identified in the Lower Water Bearing Zone, and they must be included in the quarterly monitoring program. The additional fractured limestone zone wells should be installed and developed by no later than September 1, 1991. As-built well construction logs shall be submitted to the Agency within 30 days of their installation.

- In order to meet the requirement of the approved closure 7. plan, IPM must provide with the following information in the next facility quarterly report, due to the Agency on July 1, 1991:
  - A final design for the proposed soil vapor extraction system. This final design should include design rationale, parameters, and dimensions for all equipment and controls of the system. Locations of all injection and extraction wells must be shown on a facility map scaled to 1 inch no greater than 200 All extraction and injection wells installed on-site must be described on a properly filled out Agency well completion report. The final design should describe all monitoring and maintenance inspection schedules and frequencies, and how all inspections will be reported and maintained.
  - A description of the criteria which well be used to determine the effectiveness of the soil vapor extraction system. This determination must be based upon system monitoring data and/or soil analytical Determinations based purely upon theory will not be considered by the Agency due to the apparent difficulty in establishing valid geologic/hydrogeologic data from this site.

The determination of the effectiveness of the soil vapor extraction system must include a description of all relevant parameters which will be reviewed for evaluation of the system, all sampling procedures and analytical methods used, and justification for the criteria to be selected for this determination. effectiveness determination should be carried out on a set frequency. Therefore, a schedule for these determinations must be included in this proposal.

Based upon the proposed soil vapor extraction system effectiveness determination required in Condition 7b.



above, IPM must provide the Agency with graphic representation (drawing) of the soil contamination plume after each assessment made. This map must be of the scale of 1 inch no greater than 200 feet, and should be of sufficient detail to depict the entire plume in relation to the IPM facility.

Since the second quarterly report is to be submitted to finalize the design of the soil vapor extraction system, this report must be in the form of a modification request to the approved closure plan. All further reports, unless modifying either the groundwater collection/monitoring system operations or the soil vapor extraction system operations, should be submitted as quarterly reports, rather than as closure modifications.

- 8. All soil boring cuttings, purged groundwater from well sampling or purging, equipment decontamination wash and rinsates, etc., must be managed as hazardous wastes, unless proved non-hazardous in accordance with 35 IAC 721.103 (c) and (d). IPM, being the generator of these wastes must adequately classify these wastes as either hazardous or non-hazardous. In any event, these materials must be managed as special wastes.
- 9. The purge wells constructed as continuously screed wells must be purged on a continuous basis during the entire extent of cleanup operations to ensure that cross-contamination by the more contaminated aquifers to the aquifers of lower contamination does not occur. Upon achievement of the Agency cleanup objectives or termination of purging, these continuously screened wells must be removed or plugged.
- 10. IPM must analyze for the parameter 1,1,1,2tetrachloroethane in all further groundwater sampling and
  analysis events at this facility. The January 1991
  sampling and analysis event did not provide analytical
  results for this parameter.
- 11. Since additional parameters were detected in the latest groundwater sampling event at this facility, soil and groundwater cleanup objectives for the parameters bromodichloromethane, chloroform, 1,1-dichloroethene, dibromochloromethane and trans-1,2-dichloroethene will be established by the Agency at a later date. The Agency will notify IPM upon the establishment of these cleanup objectives.



- Upon final design approval, installation, and initiation of operation of the soil vapor extraction system, the Agency will consider closure activities to be completed at this site, and this facility will be considered to be subject to post-closure requirements. Therefore, a closure extension time of 3.5 years will not be applicable for this facility. Should this facility wish to pursue clean closure, upon achieving the Agency cleanup objectives, IPM can petition the Agency and Illinois Pollution Control Board for relief from further postclosure activities.
- The Agency is in receipt of the financial assurance documents submitted for this facility. These documents are currently under review. The Agency will notify this facility of any deficiencies with the submittal upon completion of the review.

If you have any questions regarding this matter, please contact Eric Minder at 217/782-6762.

Very truly yours,

Lawrence W. Eastep, P.E., Manager

Permit Section

Division of Land Pollution Control

#### Attachment

Maywood Region Division File - RCRA Closure USEPA-Region V - George Hamper Division of Legal Counsel Andy Vollmer - Planning and Reporting ASI Technologies - Curtis Slocum Geordie Smith - Permits Eric Minder - Permits RPMS



Date

EM:

#### ATTACHMENT

This statement is to be completed by both the responsible officer and by the registered professional engineer upon completion of closure. Submit one copy of the certification with original signatures and three additional copies.

## Closure Certification Statement

Closure Log C-499-M-3

The hazardous waste management SO2 unit at the facility described in this document has been closed in accordance with the specifications in the approved closure plan. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SEPA ID Number	Facility Name
ignature of Owner/Operator	Name and Title
Signature of Registered P.E.	Name of Registered P.E. and Illinois Registration Number



217/782-6761

Received: October 1, 1990

Log No.: C-499-M-2

0310635072 - Cook County Refer to:

International Products and Mfg. Co.

ILD085352474 RCRA Closure

December 27, 1990

International Products and Manufacturing Company 210 West Oakton Des Plaines, Illinois 60017-5083

#### Gentlemen:

The closure plan modification request submitted by ASI Technologies on behalf of International Products and Manufacturing Company has been reviewed by this Agency! Your final closure plan to close the hazardous waste storage tank (SO2) is hereby approved subject to the following conditions and modifications. In addition, your inability to demonstrate that clean closure is achievable coupled with the fact that the tank system did not have secondary containment that meets the requirements of 35 IAC 7251293(b) through (f), interim status post-closure care requirements are applicable to this facility and must be implemented and abided by during remedial activities (35 IAC 725.297(b) and (c)). The first quarterly progress report, as required below, will be reviewed as a closure plan modification. Upon Agency review and approval of a closure plan that addresses the concerns and deficiencies identified herein, the Agency will notify IPM of the need to submit a contingent post-closure plan pursuant to 35 IAC 725.297(c).

1. Closure activities must be completed by July 1, 1991. When closure is complete the owner or operator must submit to the Agency certification both by the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan. This certification must be received by the Agency within sixty (60) days after closure, or by September 1, 1991.

The request to extend the time for closure to a period of 3.5 to 4 years is disapproved at this time since IPM has not provided adequate financial assurance documentation (See Condition 26 below), and therefore has not satisfied 35 IAC 725.213(b)(2).

The attached closure certification form must be used. Signatures must meet the requirements of 35 Ill. Adm. Code Section 702.126. The independent engineer should be present at all critical, major points (activities) during the closure. These might include soil sampling, soil removal, backfilling, final cover placement, etc. The frequency of inspections by the independent engineer must be sufficient to determine the adequacy of each critical activity. Financial assurance must be maintained for the units approved for closure herein until the Agency approves the facility's closure certification.



The Illinois Professional Engineering Act (Ill. Rev. Stat., Ch. 111, par. 5101 et. seq.) requires that any person who practices professional engineering in the State of Illinois or implies that he (she) is a professional engineer must be registered under the Illinois Professional Engineering Act (Par. 5101, Sec. 1). Therefore, any certification or engineering services which are performed for a closure plan in the State of Illinois must be done by an Illinois P.E.

Plans and specifications, designs, drawings, reports, and other documents rendered as professional engineering services, and revisions of the above must be sealed and signed by a professional engineer in accordance with para 5119. sec. 1311 of the Illinois Professional Engineering Act.

As part of the closure certification, to document the closure activities at your facility, please submit a Closure Documentation Report which includes:

- The volume of waste an waste residue removed. The term waste includes wastes resulting from decontamination activities.
- A description of the method of waste handling and transport.
- c. The waste manifest numbers.
- Copies of the waste manifests.
- A description of the sampling and analytical methods used. e.
- f. A chronological summary of closure activities and the cost involved.
- Color photo documentation of closure. Document conditions before, during and after closure
- Tests performed, methods and results.

The original and two (2) copies of all certifications, logs or reports which are required to be submitted to the Agency by the facility should be mailed to the following address:

> Illinois Environmental Protection Agency Division of Land Pollution Control - #24 Permit Section 2200 Churchill Road Post Office Box 19276 Springfield, Illinois 62794-9276

No later than 60 days after completion of the established post-closure care period for the hazardous waste unit, the owner or operator shall submit to the Agency, by registered mail, a certification that the post-closure care period for the hazardous waste unit was performed in accordance with the approved closure plan per 35 IAC 7251220 (as amended February 5, 1987).



- Owners and operators of waste management units which received wastes after July 26, 1982 or that certified closure according to 35 IAC 725.215 after January 26, 1983 are required to submit an application for a Post-Closure Permit meeting the requirements of 35 IAC Part 724 upon request from the IEPA unless it is demonstrated that closure by removal has been achieved (35 IAC Section 703,121 (b)).
- 4. If the Agency determines that implementation of this closure plan fails to satisfy the requirements of 35 IAC Section 725.211, the Agency reserves the right to amend the closure plani Revisions of closure plans are subject to the appeal provisions of Section 40 of the Illinois Environmental Protection Act.
- 5. Under the provisions of 29 CFR 1910 (51 FR 15,654, December 19, 1986), cleanup operations must meet the applicable requirements of OSHA's Hazardous Waste Operations and Emergency Response standard. These requirements include hazard communication, medical surveillance, health and safety programs, air monitoring, decontamination and training. General site workers engaged in activities that expose or potentially expose them to hazardous substances must receive a minimum of 40 hours of safety and health training off site plus a minimum of three days of actual field experience under the direct supervision of a trained experienced supervisor. Managers and supervisors at the cleanup site must have at least an additional eight hours of specialized training on managing hazardous waste operations.
- 6. All samples shall be analyzed individually (i.e., no compositing). Sampling and analytical procedures shall be conducted in accordance with the latest edition of SW- 846 and Attachment 7 to this Agency's closure plan instruction package. When visually discolored or contaminated material exists within an area to be sampled, horizontal placement of sampling locations shall be adjusted to include such visually discolored and/or contaminated areas. Sample size per interval shall be minimized to prevent dilution of contamination. Apparent visually contaminated material within a sampling interval shall be included in the sample portion of the interval to be analyzed. To demonstrate a parameter is not present in a sample, analysis results must show a detection limit at least as low as the PQL for that parameter in the latest edition of SW-846. For inorganic parameters, the detection limit must be at least as low as the RCRA Groundwater Detection Limits, as referenced in SW-846 (Third Edition) Volume 1A, pages TWO-29 and TWO-30, Table 2-151
- 7. Upon review of the conditions present at the IPM facility, the Agency has revised the cleanup objectives for both soil and groundwater. The parameters, soil and groundwater objectives, and acceptable detection limits (ADL) for this facility are listed in Attachment A. Closure certification for this facility will not be approved by the Agency until both soil and groundwater are remediated to these objectives.



- 8. IPM shall submit quarterly progress reports containing the results of all closure activities conducted during the previous quarter, including but not limited to the results of groundwater monitoring activities and soil investigations conducted. The first quarterly report shall document the results of the proposed pilot studies and contain proposals for further closure activities. Documentation of pilot study results should be of sufficient detail to support specific proposals for further closure activities. All proposals must include references to specific procedures, analytical methods, compliance schedules, etc. This information (i.e., the first quarterly progress report) shall be submitted in the form of a closure plan modification, subject to review and approval by the Agency. The initial quarterly progress report is due to the Agency for review no later than April 1, 1990.
- 9. SW-846 Methods 8010 and 8020 shall be used to analyze for the presence of organic hazardous waste constituents in all soil, groundwater and air samples. Results shall be reported for all parameters capable of being detected by these methods.
- 10. Analytical results for all samples (soil, groundwater, air) shall be submitted in tabular form as part of the required quarterly report submittals. The extent of soil and groundwater contamination shall also be displayed on a site map and/or in graphic form. In addition, results of analyses of groundwater samples shall be reported on DLPC Chemical Analysis Form LPC 160 (copy enclosed)
- 11) The objective of closure by removal by soil vapor extraction is to meet cleanup objectives for volatile organic compounds detected in the soils. A broader analytical scan for VOC parameters (i.e., SW-846 Methods 8010 and 8020) than those conducted in the past, along with requirements for reporting results for all parameters that may be identified by the methods, may reveal additional contaminants previously unidentified. In this event, additional cleanup objectives will need to be considered. Information of this type shall be included in the quarterly progress reports, along with a request to modify the approved closure plan to set additional cleanup objectives.
- 12. Each quarterly progress report shall contain an assessment of the effectiveness of the corrective action program to reduce groundwater contaminant concentrations and program prevent further migration of the contaminant plume(s). At a minimum, these reports should include an assessment of the extent of groundwater contamination and the rate of plume migration (spreading or shrinking). If the results of this assessment indicate that the approved closure activities are not able to effectively remediate and contain the contaminant plume(s), this shall be considered as an unexpected event which would require amendment of the closure plan pursuant to the requirements of 35 IAC 725.212(c).



- 13. IPM shall provide references to document the selection of all formulas used in the proposed design and/or analysis of pilot studies or closure activities. This information shall be submitted as part of the first quarterly progress report.
- 14. IPM shall provide a description of the criteria to be used to determine whether additional soil vapor extraction wells are needed. The type of study to be carried out to determine the final extraction well spacing should also be explicitly defined, along with the criteria for acceptable well spacing. This information shall be submitted as part of the first quarterly progress report.
- 15. IPM shall provide a description of the strategy for selection of the appropriate location of the screened interval for the vapor extraction wells (e.g., area of highest contaminant concentration, most permeable zone within the soil, etc.), and how this will be determined for different treatment areas. This information shall be submitted as part of the first quarterly progress report.
- 16. A soil gas survey using an organic vapor meter is not an acceptable substitute for soil core sample analysis to determine whether cleanup objectives have been met. A soil gas survey may only be used in conjunction with, but not instead of, soil boring core analysis as an intermediate step to determine the progress of closure activities.
- 17. IPM shall submit a detailed description of the proposed soil monitoring program along with proposals for final design of the soil remediation system. This soil monitoring program must include soil boring core analysis as verification of meeting established soil cleanup objectives This information shall be submitted in the form of an application to modify the approved closure plan.
- 18. IPM shall submit a detailed description of the methods they propose to use for statistical analysis for data collected during operation of Stage I, and how they intend to use this information. This information shall be submitted in the form of an application to modify the approved closure plan.
- 19. Stainless steel (SS 136) materials must be used for construction of all groundwater monitoring wells. Hybrid stainless steel/PVC well construction materials may be used provided that PVC is only used to construct that portion of a well located above groundwater levels. The design of wells constructed with hybrid materials must take into account seasonal fluctuations in groundwater levels, as well as the effects of water table upwelling caused by the vacuum, as discussed in IPM's proposed soil vapor extraction system. Well construction details should follow the specifications in the Agency's Monitoring Well Diagram (copy enclosed). Well completion reports should be submitted for each new well installed at the IPM facility, and all other wells for which no well completion report has been submitted, using the Agency's Well Completion Report form (copy enclosed). This information should be submitted in the Quarterly progress reports.



- 20. Quarterly assessments of the effectiveness of the groundwater remediation system are required to determine whether design of the treatment system is adequate to meet IPM's stated containment and remediation goals. If limitations imposed by the treatment system (e.g., maximum treatment capacity of 6 gal/min) renders the remediation system inadequate to meet these goals. IPM shall be required to expand the groundwater treatment system. This shall be submitted in the form of an application to modify the approved closure plan.
- 21. Figure 17 of the subject closure plan modification is supposed to be a map of projected purge wells depicting the 31 purge well scenario. However, Figure 17 show 19 shallow and 13 deep purge wells for a total of 32 purge wells. IPM should correct the apparent discrepancy between their narrative description of purge wells and those depicted in Figure 17. A list of proposed purge wells along with a map indicating the location of these wells should be provided. This information shall be submitted as part of the first quarterly progress report
- IPM has proposed the use of a multi-staged activated carbon treatment system to remove organic contaminants from the groundwater. The final disposition of treated groundwater has not been specified. IPM shall submit an application by February 15, 1991 to modify the approved closure plan, which will specify the final disposition of treated groundwater.
- 23. The subject closure modification proposes to sample and analyze 18 groundwater monitoring wells at the IPM site on a quarterly basis, with annual sampling of all monitoring wells. Figure 18 identifies 17 wells for "projected quarterly and annual sampling". IPM shall specify which 18 wells are proposed for quarterly sampling. A list of the wells proposed for quarterly sampling shall be submitted along with a map showing the well locations. IPM shall also correct the apparent discrepancy between their narrative description of wells proposed for annual sampling (ided, all wells) and those indicated in Figure In addition, water elevation measurements shall be taken for all wells on a quarterly basis in order to evaluate the effectiveness of withdrawal wells to control groundwater flow gradients. This information shall be submitted as part of the first quarterly monitoring report.
- 24. IPM's proposed schedule for closure included completion dates of February 28, 1990 (complete) to assess groundwater impact and delineate the plume, May 29, 1990 (complete) for further soil investigation, and Day 90 and every 90 days thereafter for sampling and analysis of groundwater. Schedules for completion of these tasks must be modified since the subject closure plan modification includes proposals for additional work for both groundwater and soil investigations. IPM's schedule for sampling and analysis of groundwater shall be changed to within 30 days of installation of monitoring wells an every 90 days thereafter. This information shall be submitted as part of the first quarterly progress report.
- 25. Pages 15 and 22 of the subject closure plan modification indicate that IPM may consider remediation of the impacted soils by bioremediation in conjunction with soil vapor extraction. Should IPM pursue bioremediation monitoring of the contaminated soils, a modification to the approved closure plan must be



provided which describes the purpose and extent of the monitoring program, describes soil sampling procedures, references specific methods to be used for soil sample analysis, and makes a provision to provide the Agency with complete and detailed reports, including all analytical information obtained, after each sampling event.

Further, should IPM pursue efforts to enhance the bioremediation process, a complete and detailed report, including information on the proposed bioremediation treatment, nutrients to be utilized during treatment, nutrient application frequency, effects of dual soil vapor extraction and bioremediation treatment of the soils, etc. must be provided. Along with this submittal, a work plan, outlining the proposed bioremediation treatment to be undertaken at the site, must be submitted to the Agency.

These submittals will be subject to review for approval by the Agency.

- 26. The Agency has not received documentation of adequate financial assurance for RCRA closure at this facility. It is hereby noted, pursuant to 35 IAC 725,242(a)(1), 725,243, and 725,297, the owner/operator must provide financial assurance for the clean closure alternative, or for the "dirty" closure and post-closure care should the costs for this alternative be greater than for the clean closure plan. Also, the owner/operator must provide documentation of adequate liability insurance for sudden and non-sudden occurrences (35 IAC 725.247). Adequate documentation of financial assurance and liability insurance must be provided to the Agency by April 1, 1991.
- 27. Unless noted above, all closure activities must be conducted in accordance with the approved closure plan. This includes all soil sampling procedures, analytical methods, sample preservation procedures, etc.

If you have any questions regarding this matter, please contact Eric Minder at 217/782-6762.

Very truly yours,

Lawrence W. Eastep, P.E., Manager

Permit Section

Division of Land Pollution Control

LWE:EJM:4395n.67-73

Attachments

cc: Maywood Region Division File - RCRA Closure ASI Technologies - Dan Peterson Warzyn Engineering - Martin Hamper USEPA Region V - George Hamper Andrew Vollmer - Planning and Reporting Geordie Smith - Groundwater Assistance Eric Minder



# ATTACHMENT A SOIL AND GROUNDWATER CLEANUP DBJECTIVES

Parameter	Site Objectives (ppb)	ADL (ppb)
Cis-1,2-Dichloroethene	200.0	5.10
Carbon Tetrachloride	2510	1.12
Trichloroethene	25.0	1.2
Tetrachloroethene	<b>25</b> 0	0.3
1,1,1,2-Tetrachloroethane	210.10	
1,1,2-Trichloroethane	25,10	5 0
l,l,l-Trichloroethane	1000.0	0.3
Xylene	10,000.0	50
Ethylbenzene	1000.10	2.0
Vinyl Chloride	1010	1.8
Trans-1,2-Dichloroethene	500.0	1.0
Toluene	500020	2.0

EJM: 4395n,74



#### **ATTACHMENT**

This statement is to be completed by both the responsible officer and by the registered professional engineer upon completion of closure. Submit one copy of the certification with original signatures and three additional copies.

## Closure Certification Statement

Closure Log C-499-M-2

The hazardous waste management SO2 units at the facility described in this document has been closed in accordance with the specifications in the approved closure plan. I certify under penalty of law that this document and aTT attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

USEPA ID Number	Facility Name
·	
Signature of Owner/Operator	Name and Title
Signature of Registered P.E.	Name of Registered P.E. and Illinois Registration Number
Date	
EJM:4395n,75	



217/782-6762

Log No. C-499-M-4

Received: July 1, 1991

Refer to: 0310635072 -- Cook County

International Products & Mfg. Co.

ILD085352474 RCRA-Closure

September 27, 1991

International Products and Manufacturing Company 201 West Oakton Des Plaines, Illinois 60017-5085

#### Gentlemen:

The closure plan modification request submitted by ASI on behalf of IPM has been reviewed by this Agency. Your final closure plan to close the hazardous waste tank (SO2) storage system is hereby approved subject to the following conditions and modifications.

1. When closure is complete the owner or operator must submit to the Agency certification both by the owner or operator and by an independent registered professional engineer that the facility has been closed in accordance with the specifications in the approved closure plan.

The attached closure certification form must be used. Signatures must meet the requirements of 35 Ill. Adm. Code Section 702.126. The independent engineer should be present at all critical, major points (activities) during the closure. These might include soil sampling, soil removal, backfilling, final cover placement, etc. The frequency of inspections by the independent engineer must be sufficient to determine the adequacy of each critical activity. Financial assurance must be maintained for the units approved for closure herein until the Agency approves the facility's closure certification.

The Illinois Professional Engineering Act (Ill. Rev. Stat., Ch. 111, par. 5101 et. seq.) requires that any person who practices professional engineering in the State of Illinois or implies that he (she) is a professional engineer must be registered under the Illinois Professional Engineering Act (par. 5101, Sec. 1). Therefore, any certification or engineering services which are performed for a closure plan in the State of Illinois must be done by an Illinois P.E.

Plans and specifications, designs, drawings, reports, and other documents rendered as professional engineering services, and revisions of the above must be sealed and signed by a professional engineer in accordance with par. 5119, sec. 13.1 of the Illinois Professional Engineering Act.



As part of the closure certification, to document the closure activities at your facility, please submit a Closure Documentation Report which includes:

- The volume of waste and waste residue removed. The term waste a. includes wastes resulting from decontamination activities.
- b. A description of the method of waste handling and transport.
- The waste manifest numbers. c.
- d. Copies of the waste manifests.
- e. A description of the sampling and analytical methods used including sample preservation methods and chain-of-custody information.
- f. A chronological summary of closure activities and the cost involved.
- Color photo documentation of closure. Document conditions before. g. during and after closure.
- Tests performed, methods and results. h.

The original and two (2) copies of all certifications, logs, or reports which are required to be submitted to the Agency by the facility should be mailed to the following address:

Illinois Environmental Protection Agency Division of Land Pollution Control -- #24 Permit Section 2200 Churchill Road Post Office Box 19276 Springfield, Illinois 62794-9276

- 2. The 30 foot soil vapor extraction well spacing design is exceeded in the eastern portion of the remediation area. The spacing between proposed extraction well EW-9 and well EW-7, the closest neighboring well, appears to be over 60 feet. An additional soil vapor extraction well should be installed approximately 30 feet west of well EW-9 in order to maintain a relatively consistent 30 foot spacing between wells.
- Following installation of and operation of the soil vapor extraction system for a period of at least six months, installation of the groundwater monitoring system required by the Agency approved closure plan, and installation and operation of the approved purge well system for a period of at least six months, the Agency shall consider this facility to have completed closure activities. Closure certification and the Closure Documentation Report, as referenced in Condition 1 of this document, must be provided to the Agency within sixty (60) days of completion of closure activities, or by July 1, 1992, whichever is



earlier. Upon Agency approval of the facility's closure certification, the Agency will consider this facility to be in post-closure and subject to all applicable post-closure requirements. A post-closure plan, prepared in accordance with the requirements of 35 IAC 725.216 through 725.220, 725.297, and 725.410, must be provided no later than December 1. 1991, for Agency review and approval.

Should IPM wish to pursue clean closure, Agency established cleanup objectives for facility soils and groundwater as listed in the Agency letter dated December 27, 1990, must be achieved. Upon meeting RCRA clean closure requirements, IPM may petition the Agency and Illinois Pollution Control Board to reduce the time required for post-closure in accordance with 35 IAC 725.218(g).

4. IPM must propose a method for periodic evaluation of the effectiveness of the soil vapor extraction system. In accordance with Condition 7 of the Agency's July 10, 1991 closure plan modification approval letter, IPM must provide the Agency with a description of the criteria which will be used to determine the effectiveness of the subject system. This determination must be based upon system monitoring data and/or soil analytical results. Determinations based solely upon theory will not be considered by the Agency due to the apparent difficulty in establishing valid geologic/hydrogeologic data from this site.

The determination, referenced above, must include a description of all relevant parameters which will be reviewed for evaluation of the system, all sampling procedures and analytical methods used, and justification for the criteria to be selected for this determination. This effectiveness determination should be carried out on a set frequency. Therefore, a schedule for these determinations must be included in this proposal.

Additionally, based upon the proposed soil vapor extraction system effectiveness determination required above, IPM must provide the Agency with graphic representation (drawing) of the soil contamination plume after each assessment made. This map must be of the scale of 1 inch no greater than 200 feet, and should be of sufficient detail to depict the entire plume in relation to the IPM facility.

A proposed method for system effectiveness as required above must be submitted to the Agency for review and approval by no later than December 1, 1991.

- IPM may exclude SW-846 Method 8020 analyses from routine quarterly groundwater sampling. However, more extensive sampling and analysis may be required in order to verify clean closure.
- Owners and operators of waste management units which received wastes after July 26, 1982 or that certified closure according to 35 IAC 725.215 after January 26, 19B3 are required to submit an application for a Post-Closure Permit meeting the requirements of 35 IAC, Part 724 upon request from the IEPA unless it is demonstrated that closure by removal has been achieved. (35 IAC Section 703.121(b))



- 7. Under the provisions of 29 CFR 1910 (51 FR 15,654, December 19, 1986). cleanup operations must meet the applicable requirements of OSHA's Hazardous Waste Operations and Emergency Response standard. These requirements include hazard communication, medical surveillance, health and safety programs, air monitoring, decontamination and training. General site workers engaged in activities that expose or potentially expose them to hazardous substances must receive a minimum of 40 hours of safety and health training off site plus a minimum of three days of actual field experience under the direct supervision of a trained experienced supervisor. Managers and supervisors at the cleanup site must have at least an additional eight hours of specialized training on managing hazardous waste operations.
- All samples shall be analyzed individually (i.e., no compositing). Sampling and analytical procedures shall be conducted in accordance with the latest edition of SW-846 and Attachment 7 to this Agency's closure plan instruction package. When a SW-846 (Third Edition) analytical method is specified, all the chemicals listed in the Quantitation Limits Table for that method shall be reported unless specifically exempted in writing by the Agency. When visually discolored or contaminated material exists within an area to be sampled, horizontal placement of sampling locations shall be adjusted to include such visually discolored and/or contaminated areas. Sample size per interval shall be minimized to prevent dilution of any contamination. Apparent visually contaminated material within a sampling interval shall be included in the sample portion of the interval to be analyzed. To demonstrate a parameter is not present in a sample, analysis results must show a detection limit at least as low as the PQL for that parameter in the latest edition of SW-846. For inorganic parameters, the detection limit must be at least as low as the RCRA Groundwater Detection Limits, as referenced in SW-846 (Third Edition) Volume 1A, pages TWO-29 and TWO-30, Table 2-15. If possible, your sampling program should be extensive enough to determine the lateral and vertical extent of contamination to the detection limit (PQLs) referenced above.
- Unless specifically noted above, all closure activities must be conducted in accordance with the Agency approved closure plan and all subsequent modifications.
- 10. 35 IAC 721.131 F001 through F005 wastes must be disposed in accordance with 35 IAC Part 728.
- ll. To avoid creating another regulated storage unit during closure, it is recommended that you obtain any necessary permits for waste disposal prior to initiating excavation activities. If it is necessary to store excavated hazardous waste on-site prior to off-site disposal, do so only in containers or tanks for less than ninety (90) days. Do not create regulated waste pile units by storing the excavated hazardous waste in piles. The ninety (90) day accumulation time exemption (35 IAC 722.134) only applies to containers and tanks.



- 12. Please be advised that the requirements of the Responsible Property Transfer Act (Public Act 85-1228) may apply to your facility due to the management of RCRA hazardous waste. In addition, please be advised that if you store or treat on-site generated hazardous waste in containers or tanks pursuant to 35 IAC 722.134, those units are subject to the closure requirements identified in 35 IAC 722.134(a)(1).
- 13. All hazardous wastes that result from this project are subject to annual reporting as required in 35 IAC 722.141 and shall be reported to the Agency by March 1 of the following year for wastes treated and left on-site or shipped off-site for storage, treatment and/or disposal during any calendar year. Additional information and appropriate report forms may be obtained from the Agency by contacting:

Facility Reporting Unit Division of Land Pollution Control Illinois Environmental Protection Agency P.O. Box 19276 Springfield, Illinois 62794-9276

Should you have any questions regarding this matter, please contact Eric Minder at 217/782-6762.

Very truly yours,

Lawrence W. Eastep, P.E., Manager

Lawrence W Easter byes

Permit Section

Division of Land Pollution Control

LWE:EM:jk/2977q,4-8

Attachment

cc: Maywood Region Division File - RCRA Closure USEPA Region V -- George Hamper Enforcement **RPMS** ASI Technologies -- Hong Xu ASI Technologies -- Kerry Puzio Geordie Smith -- Permits Eric Minder -- Permits



### ATTACHMENT

This statement is to be completed by both the responsible officer and by the registered professional engineer upon completion of closure. Submit one copy of the certification with original signatures and three additional copies.

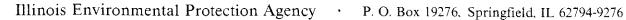
# Closure Certification Statement

Closure Log C-499-M-4

The hazardous waste management SO2 unit at the facility described in this document has been closed in accordance with the specifications in the approved closure plan. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

The Owner/Operator hereby certifies that he has recorded the notation specified in 35 Ill. Adm. Code, Section 725.219(b)(1) as amended March 24. 1987.

USEPA ID Number	Facility Name
Signature of Owner/Operator	Name and Title
Signature of Registered P.E.	Name of Registered P.E. and Illinois Registration Number
Date	
LWE:EM:jk/2977q,9	





217/782-6762

Log No.: C-499-M-1

Received: March 12, 1990

Refer to:

0310635072

IPM

ILD 085352474 RCRA Closure

June 8,1990

International Products and Manufacturing Company 210 West Oakton Des Plaines, Illinois 60017-5083

#### Gentlemen:

This letter indicates receipt of the closure plan modification and post-closure plan submitted by ASI Technologies on behalf of IPM, dated March 12, 1990. As per your request, the Agency is withdrawing this modification. It is agreed that IPM will submit a closure modification request at a later date to the Agency for conducting "clean" closure activities at this site.

Should you have any questions regarding this matter, please contact Eric Minder at 217/782-6762.

Very truly yours,

Lawrence W. Eastep, P.E., Manager

aurence WEaster OKA

Permit Section

Division of Land Pollution Control

LWE:EJM:jas/2092n,32

cc: Maywood Region Division File Andy Vollmer

ASI Technologies - Merris Sinha

USEPA Region V - George Hamper

Compliance Section

# ANATECH

Analytical Laboratories

TO! Les ion V

FAX: 616-845-9942 616-843-1877

ILDO85352474 IPM LO COST COSUR

October 29, 1991

Attn: Mr. Rick Vamos DePaul and Associates, Inc. 154 W. Hubbard Street Suite 400 Chicago, Illinois 60610 RECEIVED WMD RCRA RECORD CENTER

DEC 0 4 1992

Dear Mr. Vamos:

Please find enclosed the results for your water samples. Analysis was performed in accordance with the methods in the "Federal Register," Vol. 49, No. 209, Friday, October 26, 1984, "U.S. EPA Methods for Chemical Analysis of Water and Wastes," (EPA-600/4-79-020), March, 1983, "Standard Methods for the Analysis of Water and Wastewater," 16th Edition, or "Test Methods for Evaluating Solid Wastes," SW 846, U.S. EPA, September 1986.

LAB REF. NO.: 13191

If you have any questions concerning these results, please do not hesitate to contact our laboratory at (616) 843-1877.

Sincerely

ANATECH Analytical Laboratories

James E. Fisher Laboratory Manager

hef

Enclosure

RECEIVED

APR 06 1992

IEPA-DLPC



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM

PROJECT LAB REF. NO.	: Quarterly : 13191					SAMPLED: RECEIVED:	10/08/91 10/10/91
SAMPLED BY	: AAL - LDP		D	ATI	C 2	ANALYZED:	10/21/91
	: Water Sample			RI	EPC	ORT DATE:	10/29/91
ANALYST	EE, LBC						
LAB SAMPI					:	2720	
CLIENT SAMPL						4W-2	
		===:	===	===	===		===
	BROMODICHLOROMETHANE					ND	
	BROMOFORM	•	• •	•	٠	ND	
	CARBON TETRACHLORIDE	•	• •	•	٠	ND	
	CHLOROBENZENE						
	CHLOROBENZENE	•	• •	•	•	ND	
	CHLOROETHANE					ND	
	2-CHLOROETHYL VINYL ETHER						
	CHLOROFORM						
	CHLOROMETHANE						
	DIBROMOCHLOROMETHANE						
	DIBROMOCHLOROMEIRANE	•	• •	•	•	ND	
	1,2-DICHLOROBENZENE					ND	
	1,3-DICHLOROBENZENE						
	1,4-DICHLOROBENZENE				_	ND	
	DICHLORODIFUOROMETHANE .					ND	
	1,1-DICHLOROETHANE	-				ND	
		•	• -	•	-		
	1,2-DICHLOROETHANE						
	1,1-DICHLOROETHENE					ND	
	c-1,2-DICHLOROETHENE					ND	
	t-1,2-DICHLOROETHENE					ND	
	1,2-DICHLOROPROPANE					ND	
	c-1,3-DICHLOROPROPANE						•
	t-1,3-DICHLOROPROPANE						
	METHYLENE CHLORIDE			٠		ND	
	1,1,2,2-TETRACHLOROETHANE					ND	
	TETRACHLOROETHENE			•		ND	
	1,1,1-TRICHLOROETHANE					ND	
	1,1,1-TRICHLOROETHANE						
	1,1,2-TETRACHLOROETHANE 1,1,1,2-TETRACHLOROETHANE	•	• •	•	•	אנא תאו	
	TRICHLOROETHENE						
	TRICHLOROFLUOROMETHANE .	•		•	•	ND	

VINYL CHLORIDE . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L



### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/9
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/93
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/9
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/9
ANALYST:	EE, LBC		

CLIENT	SAMPLE	I.D.:									M	721 W-4A	 
					_							_	
		ROMODICHI				• •	•	•	•		•		
	BI	ROMOFORM			•		•						
		ROMOMETHA					•						
		ARBON TET											
	C	HLOROBENZ	ZENE		•		•		•	•	•	ND	
	~												
		HLOROETHA	INE		·	• •	•	•	•	•	٠	ND	
		-CHLOROET											
	C	HLOROFORM	1.		•		•	•	٠	٠	٠	15	
	Cl	HLOROMETE	IANE		•		•	•	•	٠	٠	ND	
	D:	IBROMOCHI	COROM	ETHAN:	E		•	•	•	•	•	ND	
	_												
	1	,2-DICHLO	DROBE	NZENE	•		•	٠	•	•	•	ND	
	1	,3-DICHLO	PROBE	NZENE	•		•	٠	•	•	•	ND	
	1	,4-DICHLO	ROBE	NZENE	•			•	•	•	•	ND	
		ICHLORODI											
	1	,1-DICHLO	ROET	HANE	•		•	•	•	•	•	ND	
	_												
	1	,2-DICHLO ,1-DICHLO -1,2-DICH	PROET:	HANE	•		•	٠	•	•	•	ND	
	1	,1-DICHLO	DROET	HENE	•				•	•	•	ND	
	C.	-1,2-DIC	ILORO	ETHEN:	E					•		ND	
	t.	-1,2-DIC	ILORO	ETHEN:	E				•			ND	
	1	-1,2-DICH ,2-DICHLO	DROPR	OPANE			•		•	•	•	ND	
	C.	-1,3-DIC	ILORO	PROPA:	NE		•	•	•	•	•	ND	
		-1,3-DIC											
	M	ETHYLENE	CHLO:	RIDE	•			-				ND	
	1	,1,2,2-TE	ETRAC	HLORO:	ETH	ANE						ND	
	T	ETRACHLO	ROETH	ENE .	•		•	•	•	•	•	ND	
	4	1 1 mm = 7	or	OTHERY IS								MD	
		,1,1-TRIC											
	1	,1,2-TRIC	CHLOR	OETHA	ΝE	• •	•	٠	•	•	•	ND	
	1	,1,1,2-TE	ETRAC	HLORO:	ETH	ANE		٠	•	•	•	ND	
	T	RICHLORO	ETHEN	E	•		•	•	•	•	•	9	
		RICHLORO						-	_	-			
	V	INYL CHLO	DRIDE		٠		٠	•	•	•	•	ND	
	P:	RACTICAL	QUAN	TITAT	ION	LI	: IIM:	:				1	

ND = Non Detectable
All results are in ug/L



#### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM
PROJECT: Quarterly
LAB REF. NO.: 13191
SAMPLED BY: AAL - LDP
DESCRIPTION: Water Sample DATE SAMPLED: 10/08/91
DATE RECEIVED: 10/10/91
DATE ANALYZED: 10/21/91
REPORT DATE: 10/29/91

ANALYST: EE, LBC

LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	===	===	-==	==	ì	2722 W-4B
BROMODICHLOROMETHANE						ND
BROMOFORM						ND
BROMOMETHANE						ND
CARBON TETRACHLORIDE						ND ND
CHLOROBENZENE	•	•	•	•	٠	ND
CHLOROETHANE						ND
2-CHLOROETHYL VINYL ETHER						ND
CHLOROFORM			•			40
CHLOROMETHANE DIBROMOCHLOROMETHANE						ND
DIBROMOCHLOROMETHANE	•	•	•	•	•	ND
1,2-DICHLOROBENZENE						ND
1,3-DICHLOROBENZENE						ND
1,4-DICHLOROBENZENE						ND
DICHLORODIFUOROMETHANE .						ND
1,1-DICHLOROETHANE		•	•	•	•	ND
1,2-DICHLOROETHANE						ND
1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE						ND
c-1,2-DICHLOROETHENE						310
t-1,2-DICHLOROETHENE						ND
1,2-DICHLOROPROPANE	٠	٠	•	•	•	ND
c-1,3-DICHLOROPROPANE						ND
t-1,3-DICHLOROPROPANE						ND
METHYLENE CHLORIDE	٠					ND
1,1,2,2-TETRACHLOROETHANE						ND
TETRACHLOROETHENE		•	٠			ND
1,1,1-TRICHLOROETHANE						ND
1,1,2-TRICHLOROETHANE 1,1,1,2-TETRACHLOROETHANE						ND .
TRICHLOROETHENE						
TRICHLOROFLUOROMETHANE .	•					ND
VINYL CHLORIDE						ND

PRACTICAL QUANTITATION LIMIT . . . 5

ND = Non Detectable All results are in ug/L

> Waboratory Manager nef



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/91
DESCRIPTION:	Water Sample	REPORT DATE:	
ANALYST:	EE, LBC		, ,

LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	2723 MW-8
BROMODICHLOROMETHANE BROMOFORM	ND ND ND ND ND ND ND
,	ND ND ND
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE	ND 6 ND ND
c-1,3-DICHLOROPROPANE t-1,3-DICHLOROPROPANE	ND ND ND
1,1,1-TRICHLOROETHANE	ND ND 190 ND
PRACTICAL QUANTITATION LIMIT	1

ND = Non Detectable
All results are in ug/L



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM

PROJECT: Quarterly DATE SAMPLED: 10/08/91
LAB REF. NO.: 13191 DATE RECEIVED: 10/10/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 10/21/91
DESCRIPTION: Water Sample REPORT DATE: 10/29/91

ANALYST: EE, LBC

CLIENT		I.D.: I.D.:		·				. <u></u>					N	2724 W-9	<del>-</del>	
	BI	ROMODICH	LOROM	ETH	ANE									ND		
	BI	ROMOFORM												ND		
	BI	ROMOMETH	ANE											ND		
	CZ	ARBON TE	TRACH	ILOR	IDE									ND		
	CI	HLOROBEN	ZENE		•	•	•	•	•			٠	•	ND		
	CI	HLOROETH	יעוא בי											ND		
		-CHLOROE			VT.	• 12197	• មច	· D	•	•	•	•	•	ND ND		
		HLOROFOR									•			200		
		HLOROMET					•	•	:	•				ND		
	-	IBROMOCH		-		•	•	•	:	•	•					
	D.	LBROMOCH	LOROR	TE TU	MINE		•	•	•	•	•	•	٠	ND		
	1	,2-DICHL	OROBE	NZE	NE									ND		
	1	3-DICHL	OROBE	NZE	NE	•	•	•	•	•	•	•	•	ND		
	1	,3-DICHL ,4-DICHL	OPOBE	NZE	NE	•	•	•	•	•	•	•	•	ND		
		CHLOROD														
		,1-DICHL														
	Δ,	, 1-01000	OROEI	. DAN	c	•	•	•	•	•	•	•	٠	ИД		
	1.	,2-DICHL	OROET	'HAN	E									ND		
	1	,2-DICHL ,1-DICHL -1,2-DIC	OROET	HEN	E									ND		
	C-	-1.2-DTC	HT.ORC	ETH	ENE	:	_	_	•	-				ND		
	t.	-1,2-DIC	HT.ORC	HTT	ENE		-	•	•	Ī	·		-	ND		
		,2-DICHL					-	•	:	•	•	•	•	ND		
	<b>-</b> ,	, 2 210,111			412	•	•	•	•	•	•	•	•	112		
	c-	-1,3-DIC	HLORO	PRO	PAN	E								ND		
	t.	-1,3-DIC	HLORO	PRO	PAN	E								ND		
	M	ETHYL <b>E</b> NE	CHLC	RID	E									ND		
	1	,1,2,2-T	ETRAC	HLO	ROE	TH	AN	E						ND		
	T	ETRACHLO	ROETI	ENE		•	•	•				•		ND		
	1	,1,1-TRI	CHI OF	) Crur	TT'N N1	<b>ਹ</b>								MD		
÷	1	,1,1-TRI ,1,2-TRI			יי גבו	E	•	•	•	•	•	•	•	MD		
	1,	,1,2-TRI ,1,1,2-T	ᄾᄯᄄᄪᄓ	THUE	אאט	LC Imrr	• 7. **	•	•	٠	•	•	•	MD		
	Ti	RICHLORO RICHLORO	ETHEN	LL	• mr	• BT***	•	٠	٠	٠	٠	٠	•	620		
					THA	NE		•	•	•	•	•	٠			
	V:	INYL CHL	ORIDE		•	٠	•	•			•			ND		

PRACTICAL QUANTITATION LIMIT . . . 25

ND = Non Detectable
All results are in ug/L



### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM	· ·	
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/91
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
ANALYST:	EE, LBC	*	

LAB SAMPLE I.D.:	2725
CLIENT SAMPLE I.D.:	MW-12
BROMODICHLOROMETHANE	ND
BROMOFORM	ND
BROMOMETHANE	ND
CARBON TETRACHLORIDE	ND
CHLOROBENZENE	ND
CHLOROETHANE	ND
2-CHLOROETHYL VINYL ETHER	ND
	ND
CHLOROMETHANE	
DIBROMOCHLOROMETHANE	ND
	•
1,2-DICHLOROBENZENE	ND
1,3-DICHLOROBENZENE	ND
1,4-DICHLOROBENZENE	ND
DICHLORODIFUOROMETHANE	
1,1-DICHLOROETHANE	
•	
1,2-DICHLOROETHANE	ND
1,1-DICHLOROETHENE	ND
c-1,2-DICHLOROETHENE	ND
t-1,2-DICHLOROETHENE	ND
1,2-DICHLOROPROPANE	ND
c-1,3-DICHLOROPROPANE	
t-1,3-DICHLOROPROPANE	
METHYLENE CHLORIDE	ND
1,1,2,2-TETRACHLOROETHANE	ND
TETRACHLOROETHENE	
1,1,1-TRICHLOROETHANE	
1,1,2-TRICHLOROETHANE	
1,1,1,2-TETRACHLOROETHANE	ND
TRICHLOROETHENE	570
TRICHLOROFLUOROMETHANE	ND
VINYL CHLORIDE	
PRACTICAL QUANTITATION LIMIT	25

ND = Non Detectable All results are in ug/L



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
カNNTVCO。	מת דמת		

LAB SAMPLE I.D.:	2726
CLIENT SAMPLE I.D.:	MW-13
BROMODICHLOROMETHANE	ND
BROMOFORM	ND
BROMOMETHANE  CARBON TETRACHLORIDE  CHLOROBENZENE	ND
CARBON TETRACHLORIDE	ND
CHLOROBENZENE	ND
CHLOROETHANE	ND
2-CHLOROETHYL VINYL ETHER	ND
CHLOROFORM	3
CHLOROMETHANE	ND
DIBROMOCHLOROMETHANE	ND
1,2-DICHLOROBENZENE	ND
1,3-DICHLOROBENZENE	ND
1,4-DICHLOROBENZENE	ND
DICHLORODIFUOROMETHANE	ND
1,1-DICHLOROETHANE	ND
1,2-DICHLOROETHANE	ND
1,1-DICHLOROETHENE	ND
c-1,2-DICHLOROETHENE	27
1,1-DICHLOROETHENE	ND
1,2-DICHLOROPROPANE	ND
c-1 3-DICHLOROPROPANE	ND
c-1,3-DICHLOROPROPANE t-1,3-DICHLOROPROPANE	ND
METHYLENE CHLORIDE	- ND
METHYLENE CHLORIDE	ND
TETRACHLOROETHENE	NID
1,1,1-TRICHLOROETHANE	ND
1,1,2-TRICHLOROETHANE	ND
1,1,2-TRICHLOROETHANE	ND
TRICHLOROETHENE	200
TRICHLOROFLUOROMETHANE	ND
VINYL CHLORIDE	ND
DRACTICAL GUANTITATION LIMIT	1 .

ND = Non Detectable All results are in ug/L



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/91
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
ANALYST:	EE, LBC		, ,

LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	2727 MW-14A
BROMODICHLOROMETHANE	ND ND ND ND
CHLOROFORM	ND ND
1,3-DICHLOROBENZENE	ND
1,2-DICHLOROETHANE	ND 50 ND
c-1,3-DICHLOROPROPANE t-1,3-DICHLOROPROPANE	ND
1,1,1-TRICHLOROETHANE	ND ND 4800 ND ND
PRACTICAL OUANTITATION LIMIT	25

ND = Non Detectable
All results are in ug/L



### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
ANALYST:	EE, LBC		

LAB SAMPLE I.D.:	2728
CLIENT SAMPLE I.D.:	MW-14C
	=======================================
BROMODICHLOROMETHANE	ND
BROMODICHLOROMETHANE BROMOFORM	
BROMOMETHANE	ND
CARBON TETRACHLORIDE	
CHLOROBENZENE	
CHLOROBENZENE	· · · · ND
CHLOROETHANE	ND
2-CHLOROETHYL VINYL ETHER .	ND
CHLOROFORM	
	ND
	ND
1,2-DICHLOROBENZENE	ND
1,3-DICHLOROBENZENE	ND
1,4-DICHLOROBENZENE	ND
DICHLORODIFUOROMETHANE	
	ND
1,1 DIOMONOMIMME	ND
1,2-DICHLOROETHANE	ND
1 1-DICHLODOFTURNE	NID
C-1.2-DICHLOROETHENE	ND
t-1.2-DICHLOROETHENE	ND
c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE	ND
T/Z DIGITIONOLINE	
c-1,3-DICHLOROPROPANE	ND
t-1,3-DICHLOROPROPANE	ND
METHYLENE CHLORIDE	ND
1,1,2,2-TETRACHLOROETHANE .	ND
TETRACHLOROETHENE	
1,1,1-TRICHLOROETHANE	ND
1,1,2-TRICHLOROETHANE	
1,1,1,2-TETRACHLOROETHANE .	ND
TRICHLOROETHENE	
TRICHLOROFLUOROMETHANE	
VINYL CHLORIDE	
PRACTICAL QUANTITATION LIMIT	r 25

ND = Non Detectable
All results are in ug/L



#### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 10/08/91
LAB REF. NO.: 13191 DATE RECEIVED: 10/10/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 10/21/91
DESCRIPTION: Water Sample REPORT DATE: 10/29/91
ANALYST: EE, LBC

LAB SAMPLE I.D.: 2729 CLIENT SAMPLE I.D.: MW-14D BROMODICHLOROMETHANE . . . . . . ND BROMOFORM . . . . . . . . BROMOMETHANE . . . . CARBON TETRACHLORIDE . . . CHLOROBENZENE . . . . . . . . . CHLOROETHANE 2-CHLOROETHYL VINYL ETHER . . . . ND CHLOROFORM . . . . . . . . . . . ND CHLOROMETHANE . . . . . . DIBROMOCHLOROMETHANE . . . 1,2-DICHLOROBENZENE . . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . ND DICHLORODIFUOROMETHANE 1,1-DICHLOROETHANE . . . . . . 1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE . . . ND t-1,2-DICHLOROETHENE ND 1,2-DICHLOROPROPANE . . . . . . ND c-1,3-DICHLOROPROPANE . . . . . . ND t-1,3-DICHLOROPROPANE . . . . . . ND METHYLENE CHLORIDE . . . . . . ND 1,1,2,2-TETRACHLOROETHANE . . . . ND TETRACHLOROETHENE . . . . . . 1,1,1-TRICHLOROETHANE . . . . . . ND 1,1,2-TRICHLOROETHANE . . . . . . ND 1,1,1,2-TETRACHLOROETHANE . . 

TRICHLOROFLUOROMETHANE . . . . . ND VINYL CHLORIDE . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
ANALYST:	EE, LBC		

·							
LAB SAMPLE I.D.:						2730	
CLIENT SAMPLE I.D.:						V-15A	
	==	==	===	===	===		=====
BROMODICHLOROMETHANE							
BROMOFORM							
BROMOMETHANE							
CARBON TETRACHLORIDE							
CHLOROBENZENE	•	•	•	•	•	ND	
CHLOROETHANE						ATTO	
2-CHLOROETHYL VINYL ETHER	٠	•	•	•	•	ND	
CHLOROFORM	•	•	•	٠	٠	ND	
CHLOROMETHANE	•	•	•				
DIBROMOCHLOROMETHANE	•	•	•	•	•	ND	
1,2-DICHLOROBENZENE						MIN	
1,3-DICHLOROBENZENE	•	•	٠	٠	•	MD	
1,4-DICHLOROBENZENE							
DICHLORODIFUOROMETHANE .	•	•	٠	•	•	ND .	
1,1-DICHLOROETHANE	•	•	•	•	•	ND	
1,1-Dichloroeinane	•	•	•	•	•	עא	
1,2-DICHLOROETHANE		_		_		ND	
1,1-DICHLOROETHENE	•	•	Ċ	•	•	ND	
c-1,2-DICHLOROETHENE	•	•	•	•	•	ND	
t-1,2-DICHLOROETHENE	•	•	•	•	•	ND	
t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE	•	•	•	•	•	ND	
1,2 510501.0111	•	•	•	•	•	1415	
c-1,3-DICHLOROPROPANE						ND	
t-1,3-DICHLOROPROPANE						ND	
METHYLENE CHLORIDE							
1,1,2,2-TETRACHLOROETHANE		_				ND	
TETRACHLOROETHENE							
	•	•	•	•	•	.,_	
1,1,1-TRICHLOROETHANE						ND	
1,1,2-TRICHLOROETHANE							
1,1,1,2-TETRACHLOROETHANE						ND	
TRICHLOROETHENE						1	
TRICHLOROFLUOROMETHANE .						ND	
VINYL CHLORIDE					•	ND	
PRACTICAL QUANTITATION LIM	IT				•	1	

ND = Non Detectable
All results are in ug/L



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
AMAT VCT -	מסז שש		, ,

LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	2731 MW-15B
BROMODICHLOROMETHANE	ND
BROMOFORM	
BROMOMETHANE	ND
	ND
CHLOROBENZENE	ND
	ND
2-CHLOROETHYL VINYL ETHER	ND
CHLOROFORM	ND
	ND
DIBROMOCHLOROMETHANE	ND
1,2-DICHLOROBENZENE	ND
1,2-DICHLOROBENZENE	ND
1,4-DICHLOROBENZENE	- ND
DICHLORODIFUOROMETHANE	ND
1,1-DICHLOROETHANE	
Ty Diomondania	· • • ND
1,2-DICHLOROETHANE	ND
1.1-DICHLOROETHENE	ND
C-1.2-DICHLOROETHENE	ND
t-1.2-DICHLOROETHENE	ND
c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE	ND
1,2 DICHBOROFROFANE	ND
c-1,3-DICHLOROPROPANE	ND
t-1,3-DICHLOROPROPANE	
	ND
METHYLENE CHLORIDE	ND
TETRACHLOROETHENE	
TETRACHLOROETHENE	ND
1,1,1-TRICHLOROETHANE	ND
1,1,2-TRICHLOROETHANE	ND
1,1,1,2-TETRACHLOROETHANE	ND
TRICHLOROETHENE	
TRICHLOROFLUOROMETHANE	
VINYL CHLORIDE	ND
PRACTICAL OHANTITATION LIMIT	1

ND = Non Detectable All results are in ug/L



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/91
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
ANALYST:	EE, LBC		

LAB SAMPLE I.I		2732 MW-17A
CHLOI CHLOI 2-CHI CHLOI	ODICHLOROMETHANE OFORM OMETHANE ON TETRACHLORIDE ROBENZENE ROETHANE LOROETHYL VINYL ETHEF ROFORM ROMETHANE ROMETHANE OMOCHLOROMETHANE	ND ND ND ND ND ND ND ND
DICH: 1,1-1 1,2-1	DICHLOROBENZENE DICHLOROBENZENE DICHLOROBENZENE LOROD IFUOROMETHANE DICHLOROETHANE DICHLOROETHANE	ND ND
c-1, t-1, 1,2-	DICHLOROETHENE 2-DICHLOROETHENE 2-DICHLOROETHENE DICHLOROPROPANE	ND ND ND
t-1, METH 1,1, TETR	3-DICHLOROPROPANE YLENE CHLORIDE 2,2-TETRACHLOROETHANE ACHLOROETHENE	ND ND ND ND ND ND ND ND
1,1, 1,1, TRIC TRIC VINY	1-TRICHLOROETHANE 2-TRICHLOROETHANE	ND  ND  ND  ND  ND  ND  ND
PRAC'	TICAL QUANTITATION LI	MIT 1

ND = Non Detectable All results are in ug/L



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/91
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
ANALYST:	EE, LBC		

LAB SAMPL			=====		MV	2733 <b>1</b> –17B
	BROMODICHLOROMETHANE . BROMOFORM		•			ND ND ND ND ND ND
	CHLOROMETHANE		•	•		ND ND ND ND ND
	1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE . t-1,2-DICHLOROETHENE . 1,2-DICHLOROPROPANE	• •	•	:		ND ND
	c-1,3-DICHLOROPROPANE . t-1,3-DICHLOROPROPANE . METHYLENE CHLORIDE 1,1,2,2-TETRACHLOROETHA TETRACHLOROETHENE	NE .	:	:	• •	ND ND ND ND
	1,1,1-TRICHLOROETHANE . 1,1,2-TRICHLOROETHANE . 1,1,1,2-TETRACHLOROETHA TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	NE .			· ·	ND 710 ND
	PRACTICAL QUANTITATION	T.TMT	т	_		10

ND = Non Detectable All results are in ug/L



#### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 10/08/91
LAB REF. NO.: 13191 DATE RECEIVED: 10/10/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 10/21/91
DESCRIPTION: Water Sample REPORT DATE: 10/29/91
ANALYST: EE, LBC

2734 LAB SAMPLE I.D.: CLIENT SAMPLE I.D.: MW-18A BROMODICHLOROMETHANE . . . . . . ND BROMOFORM . . . . . . . . . . . ND BROMOMETHANE . . . . . . . . . ND CARBON TETRACHLORIDE . . . . . . ND CHLOROETHANE 2-CHLOROETHYL VINYL ETHER . . . . ND CHLOROFORM . . . . . . . . . . ND CHLOROMETHANE . . . . . . . . . . ND DIBROMOCHLOROMETHANE . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . DICHLORODIFUOROMETHANE . . . . . ND 1,1-DICHLOROETHANE . . . . . . ND 1,2-DICHLOROETHANE . . . . . . ND 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE . . . . . . 2000 t-1,2-DICHLOROETHENE . . . . . . ND 1,2-DICHLOROPROPANE . . . . . . . ND c-1,3-DICHLOROPROPANE . . . . . . ND t-1,3-DICHLOROPROPANE . . . . . . ND METHYLENE CHLORIDE . . . . . . ND 1,1,2,2-TETRACHLOROETHANE . . . . ND TETRACHLOROETHENE . . . . . . . . . 200 1,1,1-TRICHLOROETHANE . . . . . . ND 1,1,2-TRICHLOROETHANE . . . . . . ND 1,1,1,2-TETRACHLOROETHANE . . . . ND TRICHLOROFLUOROMETHANE . . . . . ND VINYL CHLORIDE . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 200

ND = Non Detectable
All results are in ug/L



### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 10/08/91
LAB REF. NO.: 13191 DATE RECEIVED: 10/10/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 10/21/91
DESCRIPTION: Water Sample REPORT DATE: 10/29/91
ANALYST: EE, LBC

LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	2735 MW-18B
BROMODICHLOROMETHANE	ND ND ND ND ND ND
1,2-DICHLOROBENZENE	ND
1,2-DICHLOROETHANE	ND
c-1,3-DICHLOROPROPANE t-1,3-DICHLOROPROPANE	ND ND ND
1,1,1-TRICHLOROETHANE	ND ND 5900 ND ND
PRACTICAL QUANTITATION LIMIT	100

ND = Non Detectable
All results are in ug/L



## EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/91
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
ANTAT VCM.	ਲਵਾ ਹਰਨ		

LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:					MW	2736 W-18B-1
BROMOFORM		•	•	:	•	ND ND ND ND ND
		•	•	•	•	ND ND
1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE DICHLORODIFUOROMETHANE 1,1-DICHLOROETHANE	: :	•	:	:	:	ND ND
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE .		•	•	•	•	ND 140 ND
c-1,3-DICHLOROPROPANE . t-1,3-DICHLOROPROPANE . METHYLENE CHLORIDE 1,1,2,2-TETRACHLOROETHAN! TETRACHLOROETHENE	 E .	•	:	:	:	ND ND ND
1,1,1-TRICHLOROETHANE . 1,1,2-TRICHLOROETHANE . 1,1,1,2-TETRACHLOROETHANT TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	E .	•		:	•	ND ND 2000 ND
PRACTICAL OURNITURITON L	тмт	T				10

ND = Non Detectable All results are in ug/L



#### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 10/08/91
LAB REF. NO.: 13191 DATE RECEIVED: 10/10/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 10/21/91
DESCRIPTION: Water Sample REPORT DATE: 10/29/91
ANALYST: EE, LBC

LAB SAMPLE I.D.: 2737
CLIENT SAMPLE I.D.: MW-18B-2

BROMODICHLOROMETHANE . ND BROMOFORM . ND BROMOMETHANE . ND CARBON TETRACHLORIDE . ND CHLOROBENZENE . ND CHLOROETHANE . ND 2-CHLOROETHYL VINYL ETHER . ND CHLOROFORM . ND CHLOROMETHANE . ND DIBROMOCHLOROMETHANE . ND	
1,2-DICHLOROBENZENE ND 1,3-DICHLOROBENZENE ND 1,4-DICHLOROBENZENE ND DICHLORODIFUOROMETHANE ND 1,1-DICHLOROETHANE ND	
1,2-DICHLOROETHANE ND 1,1-DICHLOROETHENE ND c-1,2-DICHLOROETHENE ND t-1,2-DICHLOROETHENE ND 1,2-DICHLOROPROPANE ND	
C-1,3-DICHLOROPROPANE ND t-1,3-DICHLOROPROPANE ND METHYLENE CHLORIDE ND 1,1,2,2-TETRACHLOROETHANE ND TETRACHLOROETHENE 50	
1,1,1-TRICHLOROETHANE ND 1,1,2-TRICHLOROETHANE ND 1,1,1,2-TETRACHLOROETHANE ND TRICHLOROETHENE 1600 TRICHLOROFLUOROMETHANE ND VINYL CHLORIDE ND	
PRACTICAL QUANTITATION LIMIT 10	

ND = Non Detectable
All results are in ug/L



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. No.:	13191	DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/91
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
ANALYST:	EE, LBC		• •

LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	2738 MW-18C
BROMODICHLOROMETHANE	ND
BROMOFORM	ND
BROMOMETHANE	ND
CARBON TETRACHLORIDE	ND
CHLOROBENZENE	
CHLOROETHANE	ND
2-CHLOROETHYL VINYL ETHER	ND
CHLOROFORM	
	ND
DIBROMOCHLOROMETHANE	
1,2-DICHLOROBENZENE	ND
1,3-DICHLOROBENZENE	ND
1,4-DICHLOROBENZENE	ND
DICHLORODIFUOROMETHANE	ND
1,1-DICHLOROETHANE	ND
1,1 DICHLOROETHANE	ND
1,2-DICHLOROETHANE	ND
1,1-DICHLOROETHENE	· · · ND
c-1,2-DICHLOROETHENE	MD
+-1 2-DICHLOROEINENE	• • • 04 ND
t-1,2-DICHLOROETHENE	ND
1,2-DICHLOROPROPANE	ND
c-1,3-DICHLOROPROPANE	ND.
t-1,3-DICHLOROPROPANE	
METHYLENE CHLORIDE	ND
TETRACHLOROETHENE	
TETRACHLOROETHENE	ND
1 1 1 50 1011 00 00 10 10	***
1,1,1-TRICHLOROETHANE	ND
1,1,2-TRICHLOROETHANE	ND
TRICHLOROETHENE	940
TRICHLOROFLUOROMETHANE	· · · ND
VINYL CHLORIDE	ND
PRACTICAL QUANTITATION LIMIT	5

ND = Non Detectable All results are in ug/L



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/91
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/91
ANALYST:	EE, LBC		

LAB SAMPI CLIENT SAMPI			2739 MW-19A
		====	
	BROMODICHLOROMETHANE		ND
	BROMOFORM		
	BROMOMETHANE		
	CARBON TETRACHLORIDE		
	CHLOROBENZENE		. ND
	CHLOROETHANE		. ND
	2-CHLOROETHYL VINYL ETHER		. ND
	CHLOROFORM		
	CHLOROMETHANE	• •	. ND
	DIBROMOONLONG IN IN I	• •	• 115
	1,2-DICHLOROBENZENE		ND
	1,3-DICHLOROBENZENE	• •	ND ND
	1,4-DICHLOROBENZENE		
	DICHLORODIFUOROMETHANE	• •	. ND
	1,1-DICHLOROETHANE		. ND
	1 2 DIGII ODOPENIANE		MTN
	1,2-DICHLOROETHANE	• •	. ND
	- 1 2 DIGHT OPPORTURE	• •	• ND
	t 1 2 DIGHT OPGERHEND	• . •	, 4
	c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE		. ND
	1,2-DICHLOROPROPANE	• •	. ND
	- 1 2 DIGHT ABADBADANE		N/D
	c-1,3-DICHLOROPROPANE		
	t-1,3-DICHLOROPROPANE		
	METHYLENE CHLORIDE		· ND
	1,1,2,2-TETRACHLOROETHANE		
	TETRACHLOROETHENE		. ND
	4 4 4 55		
	1,1,1-TRICHLOROETHANE		
	1,1,2-TRICHLOROETHANE		. ND
	1,1,1,2-TETRACHLOROETHANE		
	TRICHLOROETHENE		
	TRICHLOROFLUOROMETHANE		
	VINYL CHLORIDE	• •	. ND
	PRACTICAL OHANTITATION LIMIT		1

ND = Non Detectable
All results are in ug/L



#### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM
PROJECT: Quarterly

LAB REF. NO.: 13191

SAMPLED BY: AAL - LDP
DESCRIPTION: Water Sample
ANALYST: EE, LBC

DATE SAMPLED: 10/08/91
DATE RECEIVED: 10/10/91
DATE ANALYZED: 10/21/91
REPORT DATE: 10/29/91

2740 LAB SAMPLE I.D.: CLIENT SAMPLE I.D.: MW-20A BROMODICHLOROMETHANE . . . . . . ND BROMOFORM . . . . . . . . . . . ND BROMOMETHANE . . . . . . . . . ND CARBON TETRACHLORIDE . . . . . ND CHLOROBENZENE . . . . . . CHLOROETHANE 2-CHLOROETHYL VINYL ETHER . . . . ND CHLOROFORM . . . . . . . . . . ND CHLOROMETHANE . . . . . . . . . ND DIBROMOCHLOROMETHANE . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . . ND DICHLORODIFUOROMETHANE . . . . . ND 1,1-DICHLOROETHANE . . . . . . ND 1,2-DICHLOROETHANE . . . . . . ND 1,1-DICHLOROETHENE . . c-1,2-DICHLOROETHENE . . . . . . ND t-1,2-DICHLOROETHENE . . . . . . ND 1,2-DICHLOROPROPANE . . . . . . ND c-1,3-DICHLOROPROPANE . . . . . . ND t-1,3-DICHLOROPROPANE . . . . . . ND METHYLENE CHLORIDE . . . . . . ND 1,1,2,2-TETRACHLOROETHANE . . . . ND TETRACHLOROETHENE . . . . . . . . ND 1,1,1-TRICHLOROETHANE . . . . . . ND 1,1,2-TRICHLOROETHANE . . . . . . ND 1,1,1,2-TETRACHLOROETHANE . . . . . ND TRICHLOROETHENE . . . . . . . . 5

TRICHLOROFLUOROMETHANE . . . . . ND VINYL CHLORIDE . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L



#### EPA 8010 HALOGENATED VOLATILE ORGANICS

LAB SAMPLE I.D.: 2741 CLIENT SAMPLE I.D.: MW-20B  BROMODICHLOROMETHANE ND BROMOFORM ND BROMOMETHANE ND CARBON TETRACHLORIDE ND CHLOROBENZENE ND  CHLOROETHYL VINYL ETHER ND CHLOROFORM ND CHLOROMETHANE ND DIBROMOCHLOROMETHANE ND  1,2-DICHLOROBENZENE ND 1,3-DICHLOROBENZENE ND 1,4-DICHLOROBENZENE ND 1,4-DICHLOROBENZENE ND 1,4-DICHLOROBENZENE ND 1,1-DICHLOROBENZENE ND 1,1-DICHLOROBENZENE ND 1,1-DICHLOROBENZENE ND 1,1-DICHLOROBENZENE ND 1,2-DICHLOROBENZENE ND 1,2-DICHLOROBENZENE ND 1,2-DICHLOROETHANE ND 1,2-DICHLOROETHANE ND 1,2-DICHLOROETHANE ND 1,2-DICHLOROETHENE ND 1,2-DICHLOROETHENE ND 1,2-DICHLOROETHENE ND 1,2-DICHLOROETHENE ND 1,2-DICHLOROFROPANE ND 1,2-DICHLOROPROPANE ND 1-1,3-DICHLOROPROPANE ND C-1,3-DICHLOROPROPANE ND METHYLENE CHLORIDE ND	CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 13191 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: EE, LBC	e		DATE DATE	SAMPLED: RECEIVED: ANALYZED: ORT DATE:	10/10/91 10/21/91
BROMOFORM ND BROMOMETHANE ND CARBON TETRACHLORIDE ND CHLOROBENZENE ND  CHLOROETHANE ND CHLOROFORM ND CHLOROMETHANE ND CHLOROMETHANE ND DIBROMOCHLOROMETHANE ND  1,2-DICHLOROBENZENE ND 1,3-DICHLOROBENZENE ND 1,4-DICHLOROBENZENE ND DICHLORODIFUOROMETHANE ND  1,1-DICHLOROETHANE ND  1,2-DICHLOROETHANE ND  1,1-DICHLOROETHANE ND  1,2-DICHLOROETHANE ND  1,2-DICHLOROETHANE ND  1,2-DICHLOROETHENE ND  1,2-DICHLOROFOPANE ND	CLIENT SAMPLE I.D.:		====		W-20B	
110111111111111111111111111111111111111	BROMOFORM BROMOMETHANE CARBON TETRACH CHLOROBENZENE CHLOROETHANE 2-CHLOROETHYL CHLOROFORM . CHLOROMETHANE DIBROMOCHLOROM 1,2-DICHLOROBE 1,3-DICHLOROBE 1,4-DICHLOROBE DICHLORODIFUOR 1,1-DICHLOROET 1,1-DICHLOROET 1,1-DICHLOROET 1,1-DICHLOROET c-1,2-DICHLORO t-1,2-DICHLORO 1,2-DICHLORO 1,2-DICHLORO C-1,3-DICHLORO C-1,3-DICHLORO C-1,3-DICHLORO C-1,3-DICHLORO C-1,3-DICHLORO C-1,3-DICHLORO	LORIDE			ND N	

TETRACHLOROETHENE . . . . . . . . ND

1,1,1-TRICHLOROETHANE . . . . . ND 1,1,2-TRICHLOROETHANE . . . . . ND 1,1,1,2-TETRACHLOROETHANE . . . . ND

TRICHLOROFLUOROMETHANE ..... ND VINYL CHLORIDE . . . . . . . . ND PRACTICAL QUANTITATION LIMIT . . . 1

TRICHLOROETHENE . . . . . .

ND = Non Detectable All results are in ug/L

> Laboratory Manager nef

. . . ND



# EPA 8010 HALOGENATED VOLATILE ORGANICS

LAB REF. NO. SAMPLED BY DESCRIPTION	: Quarterly	DATE SAMPLED: 10/08/91 DATE RECEIVED: 10/10/91 DATE ANALYZED: 10/21/91 REPORT DATE: 10/29/91
LAB SAMPLE		2742 MW-22A
	BROMODICHLOROMETHANE	ND
		ND
	BROMOMETHANE	
	CARBON TETRACHLORIDE	
(	CHLOROBENZENE	ND
		<del>-</del>
	CHLOROETHANE	ND
	2-CHLOROETHYL VINYL ETHER	
	CHLOROFORM	
	CHLOROMETHANE	
]	DIBROMOCHLOROMETHANE	ND
	1,2-DICHLOROBENZENE	ND
	1,3-DICHLOROBENZENE	
	1,4-DICHLOROBENZENE	
	DICHLORODIFUOROMETHANE	
		ND
	-, - Drondonodzimina	V
	1,2-DICHLOROETHANE	ND
		ND
	c-1,2-DICHLOROETHENE	
·	t-1,2-DICHLOROETHENE	ND
	1,2-DICHLOROPROPANE	ND
	c-1,3-DICHLOROPROPANE	
•	t-1,3-DICHLOROPROPANE	ND
	METHYLENE CHLORIDE	
	1,1,2,2-TETRACHLOROETHANE	ND
	TETRACHLOROETHENE	ND
	1,1,1-TRICHLOROETHANE	ND
	1,1,2-TRICHLOROETHANE	
	1,1,1,2-TETRACHLOROETHANE	
	TRICHLOROETHENE	
	TRICHLOROFLUOROMETHANE	ND

VINYL CHLORIDE . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L



### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM			
PROJECT:	Quarterly	•	DATE SAMPLED:	10/08/91
LAB REF. NO.:	13191		DATE RECEIVED:	10/10/91
SAMPLED BY:	AAL - LDP		DATE ANALYZED:	10/21/93
DESCRIPTION:	Water Sample		REPORT DATE:	10/29/93
ANALYST:	EE, LBC			

LAB SAMPLE I.D.:				2743
CLIENT SAMPLE I.D.:				N-23C
	===:		===:	
BROMODICHLOROMETHANE				ND
BROMOFORM				ND
BROMOMETHANE				ND
CARBON TETRACHLORIDE		• .		ND
CHLOROBENZENE				
CHLOROETHANE		•		ND
2-CHLOROETHYL VINYL ETHER .				ND
CHLOROFORM				ND
CHLOROMETHANE		. •		ND
DIBROMOCHLOROMETHANE				ND
1,2-DICHLOROBENZENE				ND
1,3-DICHLOROBENZENE				ND
1,4-DICHLOROBENZENE				ND
DICHLORODIFUOROMETHANE				ND
1,1-DICHLOROETHANE		•		ND
1,2-DICHLOROETHANE		٠		ND
1,1-DICHLOROETHENE				ND
c-1,2-DICHLOROETHENE				ND
t-1,2-DICHLOROETHENE				ND
1,2-DICHLOROPROPANE				ND
c-1,3-DICHLOROPROPANE				ND
t-1,3-DICHLOROPROPANE				ND
METHYLENE CHLORIDE				ND
1,1,2,2-TETRACHLOROETHANE				
TETRACHLOROETHENE				ND
1,1,1-TRICHLOROETHANE				
1,1,2-TRICHLOROETHANE	• •	•		ND
1,1,1,2-TETRACHLOROETHANE		•		ND
TRICHLOROETHENE		•		ND
TRICHLOROFLUOROMETHANE .				
VINYL CHLORIDE	• •	•		ND
PRACTICAL QUANTITATION LIM	IT	•		1

ND = Non Detectable All results are in ug/L



#### EPA 8010 HALOGENATED VOLATILE ORGANICS

LAB REF. NO. SAMPLED BY DESCRIPTION	: Quarterly			_		DA DA	TE TE			/, /, _
LAB SAMPI	E I.D.: E I.D.:		ΕC	U I	[PN	ÆN	T	2745 BLANK	(KECK	PUMP)
		===	===	==	====	===	==	====	======	======
	BROMODICHLOROMETHANE BROMOFORM						•	. ND		
	CARBON TETRACHLORIDE									
	CHLOROBENZENE									
	CHLOROETHANE							. ND		
	2-CHLOROETHYL VINYL E	THE	R					. ND		
	CHLOROFORM									
	CHLOROMETHANE							. ND		
	CHLOROMETHANE DIBROMOCHLOROMETHANE	•						. ND		
	1,2-DICHLOROBENZENE .	•						. ND		
	1,3-DICHLOROBENZENE .	•						. ND		
	1,4-DICHLOROBENZENE .							. ND		
	DICHLORODIFUOROMETHAN									
	1,1-DICHLOROETHANE .							. ND		
		•								
	1,1-DICHLOROETHENE .	•	•	•	•	•	•	. ND		
	c-1,2-DICHLOROETHENE									
	t-1,2-DICHLOROETHENE					•				
	1,2-DICHLOROPROPANE .	•	•	•	•	•	•	. ND		
	c-1,3-DICHLOROPROPANE	•	•	•		•		. ND		
	t-1,3-DICHLOROPROPANE									
	METHYLENE CHLORIDE .	•		•	•	•	•	. ND		
	1,1,2,2-TETRACHLOROET	HAN	Œ		•	•		. ND		
	TETRACHLOROETHENE	•	•	•	•	•		. ND		
•										
	1,1,1-TRICHLOROETHANE									
	1,1,2-TRICHLOROETHANE	•	•	•	•	٠	•	. ND		
	1,1,1,2-TETRACHLOROET									
	TRICHLOROETHENE	_	_	_			_	. Nn		

ND = Non Detectable All results are in ug/L

TRICHLOROFLUOROMETHANE

VINYL CHLORIDE . . . .

PRACTICAL QUANTITATION LIMIT . .

James E. Fisher Laboratory Manager nef

ND



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/9:
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/9:
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/9:
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/9:
ANALYST:	EE, LBC		

LAB SAMPLE I.D.:	2746
	RO WATER BLANK
=======================================	
BROMODICHLOROMETHANE	ND
BROMOFORM	
BROMOMETHANE	ND
CARBON TETRACHLORIDE	ND
CHLOROBENZENE	ND
CHEOROBENZEME	ND
CHLOROETHANE	ND
2-CHLOROETHYL VINYL ETHER	ND
CHLOROFORM	2
CHLOROMETHANE	ND
CHLOROMETHANE	ND
1,2-DICHLOROBENZENE	ND
1,3-DICHLOROBENZENE	ND
1,4-DICHLOROBENZENE	ND
DICHLORODIFUOROMETHANE	ND
1,1-DICHLOROETHANE	
1,2-DICHLOROETHANE	ND
1,1-DICHLOROETHENE	ND
c-1,2-DICHLOROETHENE	ND
t-1,2-DICHLOROETHENE	ND
1,1-DICHLOROETHENE	ND
c-1,3-DICHLOROPROPANE	ND
t-1.3-DICHLOROPROPANE	ND
METHYLENE CHLORIDE	ND
1,1,2,2-TETRACHLOROETHANE	ND
TETRACHLOROETHENE	ND
1,1,1-TRICHLOROETHANE	
1,1,1-TRICHLOROETHANE	ND
1,1,2-TRICHLOROETHANE	ND
1,1,1,2-TETRACHLOROETHANE	
TRICHLOROETHENE	ND
TRICHLOROFLUOROMETHANE	ND
VINYL CHLORIDE	ND
PRACTICAL QUANTITATION LIMIT	1

ND = Non Detectable All results are in ug/L



### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. No.: 13191 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample							DA	ATE	: F	SAMPLED: RECEIVED: ANALYZED: DRT DATE:	10/: 10/:	8/91 0/91 1/91 9/91		
A	NALYST	: EE, L	BC											
		E I.D.: E I.D.:			J	BAI	LE	R I	BL <i>F</i>	NK		747 (TEFLON	BAIL	ER 1
		BROMODIC												
		BROMOFOR	м		•		•	•	•	•	•	ND		
		BROMOMET	HANE		_•		•	•	•	٠	•	ND		
		CARBON T	ETRACH	LORID	E	• •	. •	•	•	•	٠	ND		
		CHLOROBE	NZENE		•	• •	•	•	٠	•	•	ND		
		CHLOROET	HANE									ND		
		2-CHLORO	ЕТНҮТ.	VINYI.	F.TI	HEF	•	•	•	•	•	ND		
		CHLOROFO												
		CHLOROME	HLOROM	ETHAN	E				•			ND		
														-
		1,2-DICH												
		1,3-DICH	LOROBE	NZENE	•			•	•	•	•	ND		
		1,4-DICH	LOROBE	NZENE	•			•	•	•	٠	ND		
		DICHLORO												
		1,1-DICH	LOROEI	HANE	•	• •	•	•	٠	•	٠	ND		
		1 2 D.T.O.T.	T OD OTH	TT N 2777										
		1,2-DICH										ND		
		1,1-DICH												
		c-1,2-DI			E.	• •	•	•	•	•	•	ND		
		t-1,2-DICH	LOBORE	PLIMEN	E	• •	•	•	•	•	•	ND		
		1,2-DICH	LOROPR	OPANE	•	• •	•	•	•	•	٠	ND		
		c-1,3-DI	CHLORO	PROPA	NE							ND		
		t-1,3-DI	CHLORO	PROPA	NE	• •	•	•	•	•	•	ND		
		METHYLEN												
		1,1,2,2-	TETRAC	HLORO	ВТН:	ΔNE		Ī	Ť	Ċ	•	ND		
		TETRACHL	OROETH	IENE .			•	•	•	•	•	ND		
					•	•	•	•	•	•	•	-120		
		1,1,1-TR	ICHLOR	ROETHA	NE							ND		
		1,1,2-TR	ICHLOR	ROETHA	NE							ND		
		1,1,2-TR 1,1,1,2-	TETRAC	HLORO	ETH	ANE	· .					ND	2	
		TRICHLOR	OETHEN	Œ								ND	•	
		TRICHLOR TRICHLOR	OFLUOF	OMETH	ANE							ND		
		VINVI. CH										MID		

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable All results are in ug/L



#### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 10/08/91
LAB REF. NO.: 13191 DATE RECEIVED: 10/10/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 10/21/91
DESCRIPTION: Water Sample REPORT DATE: 10/29/91
ANALYST: EE, LBC

LAB SAMPLE I.D.: 2748 CLIENT SAMPLE I.D.: BAILER BLANK II BROMODICHLOROMETHANE . . . . . . ND BROMOFORM . . . . . . . . . . . ND BROMOMETHANE . . . . . . . . . ND CARBON TETRACHLORIDE . . . . . ND CHLOROETHANE . . . . . . . . . . . ND 2-CHLOROETHYL VINYL ETHER . . . . ND CHLOROMETHANE . . . . . . . . . . . ND DIBROMOCHLOROMETHANE . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . ND DICHLORODIFUOROMETHANE . . . . . ND 1,1-DICHLOROETHANE . . . . . . ND 1,2-DICHLOROETHANE 1,1-DICHLOROETHENE . . . . . . ND c-1,2-DICHLOROETHENE . . . . . . ND t-1,2-DICHLOROETHENE . . . . . . ND 1,2-DICHLOROPROPANE . . . . . . ND c-1,3-DICHLOROPROPANE . . . . . . ND t-1,3-DICHLOROPROPANE . . . . . ND METHYLENE CHLORIDE . . . . . . . ND 1,1,2,2-TETRACHLOROETHANE . . . . ND TETRACHLOROETHENE . . . . . . . . . ND 1,1,1-TRICHLOROETHANE . . . . . . ND 1,1,2-TRICHLOROETHANE . . . . . . ND 1,1,1,2-TETRACHLOROETHANE . . . . ND TRICHLOROETHENE . . . . . . . . . ND TRICHLOROFLUOROMETHANE . . . . . ND VINYL CHLORIDE . . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L



Analytical Laboratories

#### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM
PROJECT: Quarterly

LAB REF. NO.: 13191

SAMPLED BY: AAL - LDP
DESCRIPTION: Water Sample
ANALYST: EE, LBC

DATE SAMPLED: 10/08/91
DATE RECEIVED: 10/10/91
DATE ANALYZED: 10/21/91
REPORT DATE: 10/29/91

LAB SAMPLE I.D.: 2749 MW 14C REPLICATE CLIENT SAMPLE I.D.: \_\_\_\_\_\_\_ BROMODICHLOROMETHANE . . . . . . ND BROMOFORM . . . . . . . . . . . . ND BROMOMETHANE . . . . . . . . . . ND CARBON TETRACHLORIDE . . . . . . ND CHLOROBENZENE . . . . . . . . . ND CHLOROETHANE . . . . . . . . . . . ND 2-CHLOROETHYL VINYL ETHER . . . . . ND DIBROMOCHLOROMETHANE . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . ND DICHLORODIFUOROMETHANE . . . . . ND 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE . . . . . . . . 25 t-1,2-DICHLOROETHENE . . . . . ND 1,2-DICHLOROPROPANE . . . . . . ND c-1,3-DICHLOROPROPANE . . . . . . ND t-1,3-DICHLOROPROPANE . . . . . . ND METHYLENE CHLORIDE . . . . . . ND 1,1,2,2-TETRACHLOROETHANE . . . . ND TETRACHLOROETHENE . . . . . . . . . ND 1,1,1-TRICHLOROETHANE . . . . . . ND 1,1,2-TRICHLOROETHANE . . . . . . ND 1,1,1,2-TETRACHLOROETHANE . . . . ND TRICHLOROETHENE . . . . . . . . . 400 TRICHLOROFLUOROMETHANE . . . . . ND VINYL CHLORIDE . . . . . . . . PRACTICAL QUANTITATION LIMIT . . . 25

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager



Analytical Laboratories

#### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT:	IPM		
PROJECT:	Quarterly	DATE SAMPLED:	10/08/9
LAB REF. NO.:	13191	DATE RECEIVED:	10/10/9
SAMPLED BY:	AAL - LDP	DATE ANALYZED:	10/21/9
DESCRIPTION:	Water Sample	REPORT DATE:	10/29/9
ANALYST:	EE, LBC		, ,

LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:		2750 REPLICATE
BROMODICHLOROMETHANE	 •	. ND
CHLOROETHANE	 •	
1,2-DICHLOROBENZENE	 •	. ND . ND
1,2-DICHLOROETHANE	  •	. ND . ND . ND
c-1,3-DICHLOROPROPANE t-1,3-DICHLOROPROPANE METHYLENE CHLORIDE 1,1,2,2-TETRACHLOROETHANE . TETRACHLOROETHENE	 •	. ND
1,1,1-TRICHLOROETHANE	 •	. ND . ND . 290 . ND

PRACTICAL QUANTITATION LIMIT . . . 25

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager nef



October 3, 1991

Mr. Lawrence W. Eastep, P.E., Manager Permit Section Division of Land Pollution Control Illinois Environmental Protection Agency 2200 Churchill Road Springfield, IL 62794-9276

RE:

0310635072 - Cook County

International Products and Mfg. Co.

ILD085352474 RCRA Closure RECEIVED

OCT 0 4 1991

IEPA-DLPC

Dear Mr. Eastep,

Please find enclosed the October, 1991 Quarterly Report for the IPM facility.

If you should have any questions or concerns, please do not hesitate to contact me at (800) 848-4508.

Sincerely,

ASI Environmental Technologies

Steve Jackson

Regulatory Specialist

## IPM FACILITY QUARTERLY REPORT

#### Location:

NE 1/4, Section 25 Township 41N. Range 11E. City of Des Plaines Cook County, Illinois

RECEIVED

October 1991

0CT 0.4 1991 IEPA-DLPC

#### Prepared For:

Mr. Jerry Zilinskas Kearney - National, Inc. 5 Corporate Park Drive - Suite 114 White Plains, New York 10604

#### Prepared By:

ASI Environmental Technologies 770 West Algonquin Arlington Heights, Illinois 60005

### **EXECUTIVE SUMMARY**

This Quarterly report is submitted on behalf of Kearney - National, Inc. (Kearney), owner of the property located at 201 West Oakton in Des Plaines, Illinois, to modify the closure plan approved by the Illinois Environmental Protection Agency (IEPA) and to provide quarterly monitoring data as required in the IEPA letter dated December 27, 1990.

The October 1991 Quarterly report includes analytical results for quarterly monitoring of groundwater wells. Review of analytical results from the quarterly groundwater sampling event indicate that while levels of organic constituents continue to decrease across the site at the majority of the monitoring wells sampled, levels of Trichloroethene were detected at significantly increased levels at five (5) wells.

The installation of nine (9) groundwater collection wells was completed during the past quarter. The piping plumbing and trenching was completed in August, 1991. These wells are expected to be fully operational in September 1991.

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SUBJECT	PAGE
1.0 INTRODUCTION	
2.0 GROUNDWATER COLLECTION SYSTEM	1
3.0 GROUNDWATER MONITORING	2
4.0 VAPOR PHASE VACUUM EXTRACTION	3
5.0 SUMMARY	4
APPENDIX 1 Well Construction Diagrams APPENDIX 2 Purge Well Location Map	
APPENDIX 3 Chemical Analysis Forms APPENDIX 4 Laboratory Analysis Sheets APPENDIX 5 Static Water Levels	

#### 1.0 INTRODUCTION

This quarterly report, submitted on behalf of Kearney-National (Kearney), owner of the property located at 201 West Oakton in Des Plaines, Illinois, presents information related to the installation and operation of the groundwater collection system, review of the quarterly groundwater sampling event analytical data, and a status report of the soil vapor extraction system (SVE).

#### 2.0 GROUNDWATER COLLECTION SYSTEM

Nine (9) groundwater purge wells, PW-13 through PW-21, were installed and developed during the past quarter. The final two (2) purge wells are awaiting completion of access negotiations. Well construction diagrams and a purge well location map are provided in Appendices 1 and 2, respectively. Wells 10 and 11 have been in operation since January 1991. Wells 1 through 9 commenced extraction in February 1991.

Review of analytical results for groundwater collection system effluent indicate that the system is meeting all discharge requirements. Through August 27, 1991, the system has treated 145,715 gallons of groundwater.

3.0 GROUNDWATER MONITORING

On July 25, 1991, sampling was performed on 19 monitoring wells as part of

the quarterly monitoring program. In the revised July 10, 1991 letter from

IEPA to IPM, the IEPA conditionally approved a modified groundwater

monitoring system consisting of 24 wells. This modified monitoring system

was not followed at the July 1991 sampling event since a response from

Kearney was being prepared.

All samples were collected in 40-ml EPA vials with teflon lids, placed on ice,

and transferred to the ASI analytical laboratory. Samples were analyzed using

EPA Methods 8010 and 8020 in accordance with EPA 600/4-79-020, Methods

for Chemical Analysis of Water and Waste and SW 846, Test Methods for

Evaluating Solid Waste Chemical and Physical Characteristics. Field quality

assurance/quality control procedures included collecting a bailer blank and

10% duplicates as outlined in the original closure plan.

Analytical data from this sampling event are reported on chemical analysis

form LPC 160, refer to Appendix 3. Groundwater analytical data sheets are

included as Appendix 4. Static water level information for these wells is

included as Appendix 5.

Generally, half of the monitoring wells have levels of groundwater impact greater than the approved groundwater cleanup objectives. For the most part levels of organic constituents continue to decrease across the site, in many cases by more than half since the July quarterly report. A significant decrease in the level of Trichloroethene was observed in MW-1 which, during the April sampling event, was present in MW-1 at 9,600 ppb and was observed to be non-detectable during the most recent quarterly sampling event. However, levels of Trichloroethene were detected in MW-12 at nearly two times greater than, in 14A at more than ten times greater than, in 14D at more than ten times greater than, in 17B at three times greater than, and in 18A 1 1/4 times greater than respective levels observed during the past quarterly sampling event. Levels above cleanup objectives were detected as follows: cis-1,2-Dichloroethane was detected in monitoring wells MW-1, 4B, 14C, and 18A; Tetrachloroethene was detected in MW-1, and 14A; and Trichloroethene was detected in MW-4B, 9, 12, 14A, 14C, 14D, 17B, 18A, 18B.

#### 4.0 VAPOR PHASE VACUUM EXTRACTION

Kearney has completed the installation of the SVE system and is awaiting approval of the final system design by the IEPA. Final SVE design was

submitted to the IEPA in the July 1991 quarterly report. Kearney will soon propose criteria to demonstrate the effectiveness of the SVE system.

### 5.0 SUMMARY

Analytical results from the quarterly groundwater sampling event indicate that while levels of organic constituents continue to decrease across the site at the majority of the monitoring wells sampled, levels of Trichloroethene were detected at significantly increased levels at five (5) wells.

# APPENDIX 1 WELL CONSTRUCTION DIAGRAMS

Site Name: International Products 6 Mfg. Ord Coordinate: Northing Easting 7-1-91  Drilling Contractor: ASI, Environmental Technologies Date Drilling Start 7-1-91  Drilling Entite Dixon Geologist Steve Rohr Drilling Fluids (pres)  Annular Space Details  Type of Surface Stati: Holeplug Drilling Fluids (pres)  Type of Surface Stati: Holeplug MSI Too of Start 7-2-91  Type of Annular Sesion: Bentonite  Annular Openative of Bags Iba. per bag MSI Too of Start 7-2-91  Type of Sentantic Sesi Granular Pelleti: Granular Type of Sentantic Sesi Granular Pelleti: Granular Type of Sand Pock:  Source of Sand: Global Drilling  Amount of Sentantics Sesi Senting Pelleti: Granular MSI Too of Sesi Interval Annular of Sand: of bags Iba. per bag 5 ft. Too af Sand Start 8-2 ft. Too af Sand MSI Too of Sesi Interval Annular of Sand: of bags Iba. per bag 5 ft. Too af Sand MSI Too of Sesi Interval Materials  Well Construction Materials  Well Construction Materials  Riser coupling pends  Riser pipe allows wit	Illinois Environment of the Site =: 0310635072					ООК		npletion Report
Desiling Contractors			Produc	ts & Mf	7	301	Weil =	
Desilies   Ernie Dixon   Geologist:   Steve Rohr   Date Completed:   7-2-91								
Drilling Method: Hollow Stem Auger  Annular Space Details  Type of Surface Seal: Holeplug  Type of Surface Seal: Holeplug  Type of Annular Sealant: Bentonite  Amount of cement: = of bags   bs. per bag   mst. Top of Sand Communiar Patients  Amount of bentonice: = of bags   bs. per bag   mst. Top of Sand Seal (Granular Patients)   Granular    Amount of bentonice: = of bags   bs. per bag   mst. Top of Sand Seal (Granular Patients)   Granular    Type of Sand Pack: Sand #5  Source of Sand: Global Drilling  Amount of Sand: = of bags   bs. per bag   5 ft. Top of Sand Seal (Interval Seal (Interval Seal Interval Seal In	Drilling Contractor: A	<u>SI Envir</u>	onmenta	ıl Techno	ologies	Date D	rilled Start: _	/-1-91
Drilling Method: Hollow Stem Auger  Annular Space Details  Type of Surface Seal: Holeplug  Type of Surface Seal: Holeplug  Type of Annular Sealant: Bentonite  Amount of cement: = of bags   bs. per bag   mst. Top of Sand Communiar Patients  Amount of bentonice: = of bags   bs. per bag   mst. Top of Sand Seal (Granular Patients)   Granular    Amount of bentonice: = of bags   bs. per bag   mst. Top of Sand Seal (Granular Patients)   Granular    Type of Sand Pack: Sand #5  Source of Sand: Global Drilling  Amount of Sand: = of bags   bs. per bag   5 ft. Top of Sand Seal (Interval Seal (Interval Seal Interval Seal In	Driller:	n ————	G	eologist:	Steve .	Konr	Date	Completed: 7-2-91
Type of Surface Seal: Holeplug  Type of Annular Sealant: Bentonite  Amount of cement: so bags   Ibs. per bag   MSL Cround Surface   MSL	Drilling Method: Hol	low Stem	Auger					
Type of Annular Sealant Bentonite  Amount of cement: = of bags   lbs. per bag   Type of Sand Sealant: = of bags   lbs. per bag   Type of Sand Sealant:   Sealant Sealant:   Sealant Sealant:   Sealant Sealant:   Sealant Sealant:   Sealant Sealant:   Seala	Annular Space Detai	ls					Elevatio	ns01 ft.
MSL Ground Surface   Amount of cement: = of bags   lbs. per bag								MSL Too of Riser Pine
Amount of bentonite: = of bags   lbs. per bag	Type of Annular Sesiant:	<u>Bentoni</u>	.te			TYTT		
Type of Sentonite Seai 'Granular, Peller': Granular  Amount of bentonite: s of Bags   lbs. per bag   5 ft. Top of Sand  Type of Sand Pack: Sand #5  Source of Sand: Global Drilling  Amount of Sand: s of bags   lbs. per bag   25 ft. Top of Screen  Well Construction Materials  Well Construction Materials		-				4		
Amount of bentonite: = of Bags   lbs. per bag   5   ft. Total Seal Interval    Amount of Sand:   Global Drilling   5   ft. Top of Sand    Source of Sand:   Global Drilling   5   ft. Top of Screen    Amount of Sand: = of bags   lbs. per bag   25   ft. Total Screen Interval    Well Construction Materials   30   ft. Top of Screen    Riser coupling joint     3   5   ft. Total Screen Interval    Riser pipe below wit.   4   PVC   35   ft. Top of Screen    Screen                          Screen                        Forcestive gasing   5   ft. Total Screen Interval    Measurements   10   ft.					•			E9
Amount of benconies: # of 8ags   lbs. per bag   5 ft. Total Seal Interval   5 ft. Top of Sand   7 ppe of Sand Pack: Sand #5   5 ft. Top of Sand   5 ft. Top of Sand   7 ppe of Sand: Global Drilling   5 ft. Top of Screen   5 ft. Total Screen interval   5 f	Type of Bentonite Seai Gra	nuiar. Peiles	: Gran	ııar		<b>X</b>		
Amount of benconite: # of Bags   bs. per bag   5   ft. Top of Sand   Type of Sand:   Sand #5   5   ft. Top of Screen   Source of Sand:   Global Drilling   25   ft. Total Screen Interval   Well Construction Materials   30   ft. Top of Screen				<del></del>				5 ft. Total Seal Interval
Type of Sand Pack:  Source of Sand: Global Drilling  Amount of Sand: so bags   bbs. per bag   25   ft. Total Screen Interval    Well Construction Materials				lbs. per bag				
Source of Sand: Global Drilling  Amount of Sand: sof bags   this per bag   25   ft. Total Screen Interval  Well Construction Materials    Total Screen Interval   30   ft. Top of Screen Interval   35   ft. Top of Sand   35   ft. Top of Screen   36   ft. Top of Screen   37   ft. Top of Screen   37   ft. Top of Screen   38   ft. Top of Screen   39   ft. Top of Screen   30   ft. Top of Screen	Type of Sand Pack: Sa	ınd #5					· · · · · · · · · · · · · · · · · · ·	•
Well Construction Materials    Total Screen Interval			2					5 ft. Top of Screen
Well Construction Materials    30   ft. Top of Seal	Amount of Sand: = of ba	ıgs		lbs. per bag				25 ft. Total Screen Interval
Riser pipe above w.t. 4"PVC 35 ft. Top of Screen  Riser pipe below w.t. "" 20 ft. Total Screen Interval  Coupling joint screen to ciser  Protective casing 55 ft. Top of Seal  Riser pipe length 25 Total 560 ft. Top of Sand  Protective casing length 60 Total 60 ft. Top of Sand  Screen 10 Top of Serven to first joint 10 See diagram  Total length of casing 560 ft. Top of Screen factival  Screen length 560 ft. Top of Screen factival  Acreen length 60 Total 60 ft. Top of Screen factival  Screen length 75 ft. Total Screen factival  Acreen length 75 ft. Total Screen factival  Acreen length 75 ft. Total Screen factival  Acreen slot size 0.010	Well Construction Ma	iterials						
Riser pipe above w.t. 4"PVC 35 ft. Top of Screen  Riser pipe below w.t. "" 20 ft. Total Screen Interval  Coupling joint screen to ciser  Protective casing 55 ft. Top of Seal  Riser pipe length 25 Total 560 ft. Top of Sand  Protective casing length 60 Total 60 ft. Top of Sand  Screen 10 Top of Serven to first joint 10 See diagram  Total length of casing 560 ft. Top of Screen factival  Screen length 560 ft. Top of Screen factival  Acreen length 60 Total 60 ft. Top of Screen factival  Screen length 75 ft. Total Screen factival  Acreen length 75 ft. Total Screen factival  Acreen length 75 ft. Total Screen factival  Acreen slot size 0.010		2	#	2	9			30 fr. Top of Seal
Riser pipe above w.t. 4"PVC 35 ft. Top of Screen  Riser pipe below w.t. "" 20 ft. Total Screen Interval  Coupling joint screen to riser  Protective casing  Measurements to .01 ft. (where applicable)  Riser pipe length 25 Total 5 ft. Total Seal Interval  Protective casing length 60 Total 60 ft. Top of Sand  Screen length 60 Total 60 ft. Top of Screen  Top of screen to first joint see diagram  Total length of cusing 5 ft. Total Screen interval  Acreen length 15 ft. Total Screen interval  Acreen length 5 ft. Top of Screen  Total length of cusing 15 ft. Total Screen interval  Acreen slot size 0.010		24 Y	<u> </u>	È	, ,	$\otimes$	-	
Riser pipe above w.t. 4"PVC 35 ft. Top of Screen  Riser pipe below w.t. "" 20 ft. Total Screen Interval  Coupling joint screen to riser  Protective casing  Measurements to .01 ft. (where applicable)  Riser pipe length 25 Total 5 ft. Total Seal Interval  Protective casing length 60 Total 60 ft. Top of Sand  Screen length 60 Total 60 ft. Top of Screen  Top of screen to first joint see diagram  Total length of cusing 5 ft. Total Screen interval  Acreen length 15 ft. Total Screen interval  Acreen length 5 ft. Top of Screen  Total length of cusing 15 ft. Total Screen interval  Acreen slot size 0.010		eify	lin eify	C C	ur Eify	$\otimes$	<del></del> -	5 ft. Total Seal Interval
Riser pipe above w.t.  Riser pipe below w.t.  Screen  Coupling joint screen to riser  Protective casing  Measurements  to 01 ft. (where applicable)  Riser pipe length  Protective casing length  Screen length  Protective casing length  Screen length  Fortective casing length  Screen length  Screen length  Fortective casing length  Screen length  Screen length  Soreen to first joint  Top of Screen to first joint  Total length of casing  Screen slot size  0.010		2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	# # # # #	5 <del>2</del>	ਤੇ ਨੂੰ			35 ft. Top of Sand
Riser pipe below w.t.  Screen  Coupling joint screen to riser  Protective casing  Measurements  to 01 ft (where applicable)  Size pipe length  Protective casing length  Screen length  Screen length  Screen length  Bottom of screen to end cup  Top of screen to first joint  Screen slot size  of openings in screen	Riser coupling joint		45.					
Riser pipe below w.t.  Screen  Coupling joint screen to riser  Protective casing  Measurements  to 01 ft (where applicable)  Size pipe length  Protective casing length  Screen length  Screen length  Screen length  Bottom of screen to end cup  Top of screen to first joint  Screen slot size  of openings in screen	Riser pige above wit.	Į		4"PVC			<del></del> -	35 ft. Top of Screen
Coupling joint screen to riser  Protective casing  Measurements  to .01 ft (where applicable)  Sisser pipe length  Protective casing length  Screen length  Screen length  Bottom of screen to end cap  Top of screen to first joint  Total length of cusing  Sureen slot size  of openings in screen	Riser pipe below w.t.			ŢΤ				
Protective casing	Screen			11				20 5 7-1-1 8-2-1
Measurements  to .01 ft. (where applicable)  Size pipe length  Protective casing length  Screen length  Some of screen to end cap  Top of screen to first joint  Total length of casing  Screen slot size  O.010  11.514	Coupling joint screen to cise	· r						tt. Iotal Screen Interva
Measurements  to .01 ft (where applicable)  ft. Top of Seal  ft. Top of Seal  ft. Total Seal Interval  60 ft. Top of Sand  Protective casing length  Screen length  60 ft. Top of Screen  70 ft. Top of Screen  60 ft. Top of Screen  60 ft. Top of Screen  70 ft. Top of Screen  71 ft. Total Screen interval  71 ft. Total Screen interval	Protective casing				<u> </u>			
Riser pipe length 25' Total 60 ft. Top of Sand  Protective casing length 60' Total 60 ft. Top of Screen  Screen length 60' Total 60 ft. Top of Screen  For of screen to end cap 10' 60 ft. Top of Screen  Top of screen to first joint see diagram 15 ft. Total Screen interval 60 ft. Top of Screen interval 60 ft. Top of Screen interval 60 ft. Top of Screen 60 ft. Top of	Measurements	to	.01 ft iwh	nere applicat	ole)		-	ft. Top of Seal
Protective casing length  Screen length  Bottom of screen to end cap  Top of screen to first joint  See diagram  Total length of casing  Screen slot size  of openings in screen	9	T ===	1 m - ~	<u> </u>				) ft. Total Seal Interval
Screen length 60 Total  Bottom of screen to end cap 10		<u>  25</u>	Total		· · · · · · · · · · · · · · · · · · ·			60 ft. Top of Sand
Bottom of screen to end cap 10' Top of screen to first joint see diagram  Total length of casing Screen slot size 0.010  of openings in screen		60	1 Total					
Top of screen to first joint see diagram  Total length of casing  Screen slot size 0.010  of openings in screen		<u> </u>		<u> </u>			<u> </u>	60 ft. Top of Screen
Total length of casing  Screen slot size  of openings in screen	<del></del>			-am				
Screen slot size 0.010 of openings in screen		Se	c dragi	. 41411				15
of openings in screen		1 0	010		·		<del></del>	tt. Potal Screen interval
17.61	<del></del>		010		<del></del>			•
ID of riser pipe (in) 4 " 75 ft. Bottom of Screen 85.58 ft. Bottom of Borehole	·	11	c 11					
10 of riser pipe (in) 4 OO OO ft. Bottom of Boresole	·							75 ft. Bottom of Screen
	to of fiser pipe in	<u> </u>						23.30 ft. Bottom of Boresole

$q_{i k a} = 0$	72		on Agend		K	Well Comp	PW-14
Site Name: Internat	ional Pro	ducts	& Mfg.	Grid Co	pordinate: Northing	Weil =	Easting
							2-91
Driller:		G	eologist:	Steve :	Rohr	Date Co	mpleced: 7-3-91
Drilling Method: Hollo	ow Stem Au						
Annular Space Detail	ls		<del>"</del>			Elevations	01 ft.
Type of Surface Seal: Hol	eplug			-			<ul> <li>MSL Top of Protective Cas</li> <li>MSL Top of Riser Pipe</li> <li>ft. Casing Stickup</li> </ul>
Type of Annular Sealant:	Bentonite	<u> </u>	·	_	TVIT		ta casing Stickap
Amount of cement: = of					<u> </u>		MSL Ground Surface ft. Top of annutar sealant
Amount of bentonite: =	of bags	lbs. p	er bag	-	a la	_	
Type of Bentonite Seal (Gran	ular. Pellecit	Gran	ular	_	<b>XX X</b>		8 ft. Top of Seal
				-	$\otimes$	5	ft. Total Seal Interval
tmount of bentonite: = of Ba			lbs. per bag		$\otimes \otimes$		ft. Top of Sand
						,	it. topol sand
Type of Sand Pack: San				<del></del>		5	ft. Top of Screen
ource of Sand:Glo	obal Dril	ling	· <del></del>				It. Lop of Screen
Amount of Sand: = of ba	~~	Ţ	ha nerhad				
Amount of Sang. + of ba	¥5		or her out		1.		ft. Total Screen Interval
Well Construction Ma	terials						
	ad A	Peflon Specify Type	урс	orl K		3	O_ ft. Top of Seal
	ESS A		T. 4.	<del>(*</del>		5	ft. Total Seal Interval
		Pin J	5 E	5 🕾	I 5≪4 XX		ft, Total Seal Interval
	3 2 2	<del>**</del> *	<b>≥</b> ₹		l 500 804		
	Stainless Steel Specify Type	- <u>2</u>	PVC Specify Type	Other Specify Type			5 ft. Top of Sand
Riser coupling joint	35.00 St. 10 St.	- A		TOO and st		3	5 ft. Top of Sand
Riser pige above w.t.	3	n He	4"PVC	100 100		3	
Riser pipe above wit. Riser pipe below wit.	and a second	E. Sh	4"PVC	410 410		3	5 ft. Top of Sand
Riser pipe above wit. Riser pipe below wit. Screen		Per Spx	4"PVC	410 410		3	5 ft. Top of Sand  5 ft. Top of Screen
Riser gipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise		Ted Spe	4"PVC	410 edin		3	5 ft. Top of Sand
Riser pipe above wit. Riser pipe below wit. Screen		P.J.	4"PVC	110 end/3		3	5 ft. Top of Sand  5 ft. Top of Screen
Riser gipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise			4"PVC			3	5 ft. Top of Sand  5 ft. Top of Screen
Riser pipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise Protective casing  Measurements	to .6	01 ft. (wh	4"PVC			3	5 ft. Top of Sand  5 ft. Top of Screen  O ft. Total Screen Interva  5 ft. Top of Seal  ft. Total Seal Interval
Riser pipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise Protective casing  Measurements  Riser pipe length		01 ft. (wh	4"PVC			3	<ul> <li>ft. Top of Sand</li> <li>ft. Top of Screen</li> <li>ft. Total Screen Interva</li> <li>ft. Top of Seal</li> </ul>
Riser pipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise Protective casing  Measurements Riser pipe length Protective casing length	to .6	Olft. (wh	4"PVC			3	5 ft. Top of Sand  5 ft. Top of Screen  6 ft. Total Screen Interva  5 ft. Top of Seal  6 ft. Total Seal Interval
Riser pipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise Protective casing  Aeasurements Riser pipe length Protective casing length Screen length	to .6	Olft. (wh	4"PVC			3	5 ft. Top of Sand  5 ft. Top of Screen  6 ft. Total Screen Interva  5 ft. Top of Seal  6 ft. Total Seal Interval
Riser pipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise Protective casing  Measurements Riser pipe length Protective casing length Screen length Bottom of screen to end cap	25 Tot	Of ft. (wh	4"PVC			3	5 ft. Top of Sand  5 ft. Top of Screen  6 ft. Total Screen Interva  5 ft. Top of Seal  6 ft. Total Seal Interval  7 ft. Top of Sand
Riser pipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise Protective casing  Measurements Riser pipe length Protective casing length Screen length Bottom of screen to end cap Top of screen to first joint	to .6	Of ft. (wh	4"PVC			3	5 ft. Top of Sand  5 ft. Top of Screen  6 ft. Total Screen Interval  7 ft. Top of Seal  7 ft. Top of Sand  9 ft. Top of Sand
Riser pipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise Protective casing  Assurements Riser pipe length Protective casing length Screen length Bottom of screen to end cap Top of screen to first joint Total length of casing	to 6	Of ft. (wh	4"PVC			3	5 ft. Top of Sand  5 ft. Top of Screen  6 ft. Total Screen Interval  7 ft. Top of Seal  7 ft. Top of Sand  9 ft. Top of Sand
Riser pipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise Protective casing  Measurements Riser pipe length Protective casing length Screen length Bottom of screen to end cap Top of screen to first joint Total length of casing Screen slot size	25 Tot	Of ft. (wh	4"PVC			3	5 ft. Top of Sand  5 ft. Top of Screen  6 ft. Total Screen Interval  7 ft. Top of Seal  7 ft. Top of Sand  9 ft. Top of Sand
Riser pipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise Protective casing  Assurements Riser pipe length Protective casing length Screen length Bottom of screen to end cap Top of screen to first joint Total length of casing Screen slot size of openings in screen	to 0  25' Tot  60' Tot  10'  see dia  0.010	Of ft. (wh	4"PVC			3	5 ft. Top of Sand  5 ft. Top of Screen  O ft. Total Screen Interval  ft. Total Seal Interval  ft. Top of Sand  O ft. Top of Screen  5 ft. Top of Screen
Riser pipe above wit. Riser pipe below wit. Screen Coupling joint screen to rise Protective casing  Measurements Riser pipe length Protective casing length Screen length Bottom of screen to end cap Top of screen to first joint Total length of casing Screen slot size	to 6	Of ft. (wh	4"PVC			3	5 ft. Top of Sand  5 ft. Top of Screen  6 ft. Total Screen Interva  5 ft. Top of Seal  6 ft. Total Seal Interval  6 ft. Top of Sand  6 ft. Top of Screen

Illinois Enviro	nmental	Protecti	ion Agend	5À		Well Comple	tion Report
Site =: 0310635072	2		Соц	nty <u>COO</u>	K	Well = <u>PW</u>	-15
Site Name: Internati	onal Pr	oducts •	& Mfg.	Grid Coo	rdinate: Northing		, Easting
Drilling Contractor: ASI							
Driller: Ernie Dixor							· ·
•			_				
Annular Space Detail	ls		·			Elevations -	01 ft.
Type of Surface Seal: Ho	leplug_		· · · · · · · · · · · · · · · · · · ·				MSL Top of Protective Casin MSL Top of Riser Pipe
Type of Annular Sealant:	Benton	ite					ft. Casing Stickup
Amount of cement: = of				-			MSL Ground Surface
							ft. Top of annular sealant
Amount of bentonite: #				-	- 2	5.8	0.77 2.2 1
Type of Bentonite Seai 'Grai	nular. Pelle	<u>Gran</u>	ular	-	<b>X</b> X		ft. Top of Seal
				-			ft. Total Seal Interval
Amount of bentonite: = of 8s			lbs. per bag				. ft. Top of Sand
Type of Sand Pack: Sar	ıd #5						
Source of Sand:Glo		lling_		·			ft. Top of Screen
Amount of Sand: = of ba	gs		lbs. per bag			25	
			•				ft. Total Screen Interval
Well Construction Ma	iterials						
	3	2	2	9		30	ft. Top of Seal
	7 5	7,	Ş	É			
	Stainless Steel Specify Type	Teffon Specify Type	PVC Specify Type	Other Specify Type			ft. Total Seal Interval
	2 2 2	골중	2 3	ਰ ਸ਼ੈ		35	ft. Too of Sand
Riser coupling joint		. + .	<u> </u>			·	
Riser pipe above wit.			<u> </u>	-		<u>35</u>	_ ft. Top of Screen
Riser pipe below w.t.			4"PVC		四三三		
Screen	1		''			20	_ ft. Total Screen Interva
Coupling joint screen to rise	i						
Protective casing	<u> </u>		<u></u>	<u> </u>			
Measurements	to	.01 ft. Iw	here aoplica	ble		55	_ ft Top of Seal
Riser pipe length	25' T	otal_				5	_ ft. Total Seal Interval
Protective casing length	<u>ا دے ا</u>	orar				60	_ ft. Top of Sand
Screen length	60' T	otal				<b>4</b> 0	
Bottom of screen to end cup		<u> </u>				<u>60</u>	ft. Top of Screen
Top of screen to first joint	<del></del>	iagram					
Total length of casing						<u>15</u>	_ ft. Total Screen Interval
Sureen slot size	0.010						
of openings in screen							
imeter of borehole (in)	11.5"					<u>75</u>	ft. Bottom of Screen 58 ft. Bottom of Borehole
ID of riser pipe 'in'	4"			1	1 1 1 2 2 4 4 4 1	85.	58 fr. Borrom of Borriguin

Illinois Enviro			on Agend	•	COOK	Well Comple Well =	etion Report W-16
Site Name: Interna							Easting
							25-91
•			=				pleted: <u>6-25-91</u>
Drilling Method: HOLLO	w Stem	Auger			Drilling Fluid:	sitypei:	
Annular Space Detai	ls					Elevations	
Type of Surface Seal:H				_			MSL Top of Protective Casto MSL Top of Riser Pipe
Type of Annular Sealand	Bentoni	te	·	_	TV	<u> </u>	tt. Casing Stickup
Amount of cement: = of			per bag	_	<b>A S</b>		MSL Ground Surface
						<u> </u>	ft. Too of annular sealant
Amount of bentonite: =				-	a	50	ca Thurst Sunt
Type of Bentonite Seai (Gran	nular. Pellet	Gran	ular	-	$\boxtimes$		ft. Top of Seal
				•			ft. Total Seal Interval
Amount of bentonite: = of Ba	.gs		lbs. per bag			, <u>_5</u>	_ ft. Top of Sand
Type of Sand Pack: Sand	L #5						
Source of Sand: Global							_ ft. Top of Screen
Amount of Sand: = of ba	gs		lbs. per bag			25	
Well Construction Ma							_ ft. Total Screen Interval
well Construction Ma	teriais						
	2	3	2	2		30	_ ft. Top of Seal
·	3 A	Ş	A.	Ž		<u></u>	_ tt. rop of cear
	Stainless Steel Specify Typu	Teffon Specify Type	PVC Specify Pype	Dilher Specify Type	$\otimes$		_ ft. Total Seal Interval
	2 2 2	<u>2</u> 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 5	₹ <del>5</del>		35_	_ ft. Top of Sand
Riser coupling joint		. *.				25	•
Riser pige above wit.			4"PVC			35	_ ft. Top of Screen
Riser pipe below w.t.			71	<del>                                     </del>			
Screen			<del>  ''</del>			20	ft. Total Screen Interva
Coupling joint screen to rise	r		<u> </u>	<del> </del>			
Protective casing			<u></u>				
Measurements	to	.01 ៥៩ (w	here applica	òle		55	_ ft. Top of Seal
Riser pipe length	25' T	otal					_ ft. Total Seal Interval
Protective casing length	1 2 1	<u></u>				60	ft. Top of Sand
Screen length	60' T	ota1				40	
Bottom of screen to end cap		<u> </u>			l::⊟ ::		ft. Top of Screen
Top of screen to first joint	1	iagram					
Total length of casing						15	ft. Total Screen Interval
Screen slot size	0.010						
of openings in screen							
meter of borehole (in)	11.5"					75	ft. Bottom of Screen
ID of riser pipe (in)	4"				1 1 1 1 1	85	ft. Bottom of Screen .58ft. Bottom of Borehole
							<b>35</b>

Illinois Enviro 0310635072			ion Agend	-	COOK	Well Completion Report
						Northing Easting
Drilling Contractor:Lay	ne-west	ern_				Date Drilled Start:7-10-91
Driller:			Geologist:	Steve	Rohr	Date Completed: 7-11-91
Drilling Method: Holl	Low Stem	Augers	3	<del></del>	Drij	lling Fluids (typer:
Annular Space Detail	ls		·····			Elevations01 ft.
Type of Surface Seal: Ho	leplug		<del></del>	-	T	MSL Top of Protective  MSL Top of Riser Pipe
Type of Annular Sealant:	Benton	ite			Ť	2 ft. Casing Stickup
Amount of cement: = of			per bag	<del>-</del>	/ai	MSL Ground Surface
					4	0 ft. Top of annular seal
Amount of bentonite: =				_	1	O ft. Top of Seal
Type of Bentonite Seal 'Gran	nuiar. Pelle:	:: Gran	lutar	-	$\boxtimes$	Я ₩ R
				-	ቖ	ft. Total Seal Interval
Amount of bentonite: = of Ba	.gs	<del></del>	lbs. per bag		· 🕸	3 ft. Top of Sand
Type of Sand Pack: Sand	1 #5		· · · · · · · · · · · · · · · · · · ·			
Source of Sand:Global	L Drilli	ng				3 ft. Top of Screen
Amount of Sand: = of ba					-	25 ft. Total Screen Inter
Well Construction Ma	واوندود				٠. ا	tt. Iotal screen inter
well Construction ins	iterials					
	2	2	2	2	,.,	28 ft. Top of Seal
	n ←	<del>\</del> \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Y. 1	*		X XX
	Stainless Steel Specify Typo	Teffan Specify Type	PVC Specify Type	Other Specify Type	$\parallel$	5 ft. Total Seal Interval
	जे जे जे	<u> </u>	<u>₹</u> %	ਰ ਤੋਂ	1 8	S St. Top of Sand
Riser coupling joint				ļ	_	
Riser pipe above w.t.			4"PVC	1	<u> </u>	33 ft. Top of Screen
Riser pipe below w.t.		<del></del>	11	<del> </del>	<b>-</b>   1`.	
Screen Coupling joint screen to rise				<del>                                     </del>	13	the state of the s
	1	<del></del>		<del>                                     </del>	-}        _;	
Protective casing	<u> </u>				<del>-</del>	
Measurements	to	.01 ft. (w	here applica	ıblei	 	48 ft. Top of Seal
Riser pipe length	001 5				ר ∜	5 ft. Total Seal Interva
Protective casing length	23' T	<u>otal</u>			<b>┤</b>	53ft. Top of Sand
Screen length	50' T				7	53
Bottom of screen to end cap		<u>ULŻI.</u>				ft. Top of Screen
Top of screen to first joint		<del></del>				
Total length of casing		· · · · · · · · · · · · · · · · · · ·				10 ft. Total Screen Inte
Screen slot size	0.010					
of openings in screen						
imeter of borehole 'in'	11.5"					63 ft. Bottom of Screen
(D of riser pipe in)	4"					73 ft. Bottom of Boreis
Completed by			Survey	yed by:		[il. registration =

Illinois Enviro	nmental	Protecti	on Agen	Well Completion Report					
Site #: 031063507	72		Cou	nty <u>COOK</u>	K Well = PW-18				
							Easting		
Drilling Contractor:Le									
				a					
Driller:			eologist:		<del></del>		pleted: 7-12-91		
Drifling Method: Hollo	ow Stem	Auger			Drilling Fluid	s (type):			
Annular Space Detai	ls					Elevations -			
Type of Surface Seal:	Holeplug			-			MSL Top of Protective Casta MSL Top of Riser Pipe		
Type of Annular Sesiant:	Bentonit	e		-	T\\		ft. Casing Stickup		
Amount of cement: = of			per bag	_		<del></del> <del>0</del>	MSL Ground Surface		
Amount of bentonite: =	_					<u> </u>	ft. Top of annular sealant		
				-	-1   3	0	ft. Top of Seal		
Type of Bentonita Seal 'Gran	nuiar. Peilet	. Gran	штаг	-	$\boxtimes$		•		
<del></del>				-		$\frac{3}{2}$	. ft. Total Seal Interval		
Amount of bentonite: * of Ba						<del></del> , <del>3</del>	ft. Top of Sand		
Type of Sand Pack: San	nd #5								
Source of Sand:Glo	bal Dri	lling		<u>.</u>		3	_ ft. Top of Screen		
Amount of Sand: # of ba									
Amount of Sand. + of ga	.83		103. pc. 3-9			25	ft. Total Screen Interval		
Well Construction Ma	iterials								
				77,		28	_		
	, <u>*</u>	Š	i i	ď Žį			ft. Top of Seal		
	illy '	<u>, À</u>	<u> </u>	h 2			_ ft. Total Seal Interval		
	Stainless Steel Specify Type	Teffon Specify Type	PVC Specify Type	Other Specify Type	- X X		_ ft. Top of Sand		
Riser coupling joint									
Riser gipe above wit.	<u> </u>		4"PVC			33	_ ft. Top of Screen		
Riser pipe below w.t.			11		(v = v)				
Screen			†í			15	ft. Total Screen Interva		
Coupling joint screen to rise	er -					<del></del>	(t. lotal Screen interva		
Protective casing									
Measurements	te	).01 ft. lw	here applica	.ble <sup>,</sup>		48	_ ft. Top of Seal		
Riser pipe length	23' T	otal				5	_ ft. Total Seal Interval		
Protective casing length	<u> </u>	orar	<u> </u>			<u>53</u>	_ ft. Top of Sand		
Screen length	50' T	nt a 1				En			
Bottom of screen to end cap		<u>ucal</u>				53	ft. Top of Screen		
Top of screen to first joint	<del>†</del>						•		
Total length of casing						<u> </u>	ft. Total Screen Interval		
Screen slot size	0.010								
of openings in screen									
ameter of borehole 'in'	11.5"					63	(t. Bottom of Screen		
ID of riser pipe int	4"	<del></del>			10-34 J.	73	ft. Bottom of Borehole		
						- · ·			

Illinois Environ	nmental	Protecti	on Agenc	У			Well C	omple	ion Report
Site #: 0310635	072		Con	nts CO	OK		Wal	ı PW	-19
									Easting
									9-91
Driller: Ernie Dixo	<u>n</u> _	C	eologist: S	teve Ro	hr		D	ate Comp	leted: 6-19-91
Drilling Method: Hollo	w Stem A	uger		****	Drillin	g Fluids	(type): _		
Annular Space Detail	S						Elevat		.01 ft.
Type of Surface Seal: Hol	eplug				I	= 7			MSL Top of Protective Casing MSL Top of Riser Pipe
Type of Annular Sealant: B	<u>entonite</u>				ΤÝ	TT		<u> </u>	ft. Casing Stickup
Amount of cement: # of	bags	lbs. p	er bag		40	9		4.1	MSL Ground Surface ft. Top of annular sealant
Amount of bentonite: # 4	of bags	lbs. p	er bag		Z====	0 7 06 0			tt. Top of annular seatant
Type of Bentonite Seal (Gran					7	9.7			
Type of Demontre Seaf Oran	ulai, Fellet				8	o Ve			
Amount of bentonite: # of Ba			lbs. per bag		P. A. V. W. W. V. W. W. V. W. W. V. W. W. V. W. W. V. W. V. W. V. W. V. W. V. W. W. W. V. W. W. V. W. W. V. W. W. V. W.	\ <u>\</u>			
Type of Sand Pack: Sand	<i>#</i> 5			<del></del>			٠,		
Source of Sand: Global	Drilling	·	<u>.                                    </u>	·					
Amount of Sand: ≠ of ba	gs		lbs. per bag					•	
									•
Well Construction Ma	terials								
	), y pe	Туре	PVC Specify Type	уре					
	Stainless Steel Specify Type	ا چ	F yi	Other Specify Type	!				
	Stain Steel	'Pefton Specify '	2VC	)The					
Riser coupling joint	3, 3, 3,		- "						
Riser pipe above w.t.			4"PVC						
Riser pipe below w.t.			11						
Screen			11						
Coupling joint screen to rise	r								
Protective casing									
Measurements	to	.01 ft. (w)	nere applica	ble)	$\boxtimes$	$\boxtimes$		0.25	ft. Top of Seal
Riser pipe length	5'				፟፟፠			31	ft. Total Seal Interval
Protective casing length					<u>                                    </u>				. ft. Top of Sand
Screen length	30'					;;		5.25	a <b>m</b> a a
Bottom of screen to end cap					: /				. ft. Top of Screen
Top of screen to first joint					į\;	<b>=</b> :1			
Total length of casing					् इ			30	_ ft. Total Screen Interval
Screen slot size	0.01	0			, ,				
of openings in screen						<b>∃</b> :1			
iameter of borehole (in)	11.5	11				<b>≓</b> ≟!		35.	25 st Bottom of Socour
ID of riser pipe tine	4"			<u></u>		· **		35.	25 ft. Bottom of Screen 25 ft. Bottom of Borehole
					<u> </u>		<u></u>		
			r					112	.i
Completed by			Survey	ed by:	<del></del>			_ III. reg	stration =

Site =:0310635072									tion Report
			Cou	nty <u>C00</u>	K		Wel	la_E	W-20
Site Name: Internation									
Drilling Contractor: ASI, En	vironme	ntal T	echnolog	ies	D	ate Dril	iled Start	6-20	91
Driller: Ernie Dixon									
Drilling Method: Hollow									
Annular Space Details	<del>,</del>		<del></del>						
Type of Surface Seal: Hol					<del></del>	<del></del>			<ul> <li>.01 ft. MSL Top of Protective Casic.</li> </ul>
Type of Annular Sealant: B				•		<u> </u>		0	MSL Top of Riser Pipe ft. Casing Stickup
									MSL Ground Surface
Ampunt of cement: = of ba					200	🛼			ft. Top of annular sealant
Amount of bentonite: # of	bags	lbs. p	per bag	•	[9]	200			
Type of Bentonite Seal (Granul	lar.Pellet)	. Gran	ular	-	D	100			
Amount of bentonite: # of Bags			lbs. per bag	· 	PY A WICK!	Vio Vale			
Type of Sand Pack: Sand	<i>‡</i> 5		-		i		٠,		
Source of Sand: Glob	al Dril	ling		•	:		•		
Amount of Sand: = of bags	-		lbs. per bag	<del></del>					
Well Construction Mate	erials						٠		
			1						
	Stainless Steel Specify Type	Teflon Specify Type	PVC Specify Type	Other Specify Type					
	7 7 7 T	- 2 de	7. 4.	Spr.					•
Riser coupling joint									
Riser pige above w.t.			4"PVC						
Riser pipe below w.t.					1				
Screen	-								
Coupling joint screen to riser					:				
Protective casing	<u> </u>		<u> </u>		į				
Measurements	to	.01 ft. (w)	nere applical	ble		$\boxtimes$			ft. Top of Seal
Riser pipe length	4.75				$\bowtie$				ft. Total Seal Interval
Protective casing length						,		<u>.                                    </u>	ft. Top of Sand
Screen length	30.25							5	s. <b>m</b>
Bottom of screen to end cap	0					点		<u></u>	ft. Top of Screen
Top of screen to first joint						331			\ <del>-</del>
Total length of casing		<u></u>	•••			<b>‡</b> .:		30.2	25 ft. Total Screen Interval
Screen slot size	0.010				.``E				
of openings in screen						<b> :</b>			
Diameter of borehole (in)	11.5"					Ⅎℴ╣		<u>35.</u> 2	25 ft. Bottom of Screen
ID of riser pipe (in)	4"				- 1° - 3	<b>~</b> •••		35.2	25 ft. Bottom of Screen 25 ft. Bottom of Borehole

Illinois Enviro	nmental	Protecti	on Agena		<del></del>	***	Well Com	ipletion Report	
			_	_					
Site =:0310635072									
								Easting	
Drilling Contractor: Lay	ne-Weste	rn			Dá	ate Dri	illed Start: _	7-15-91	
Driller:		C	eologist:	Steve Ro	hr		Date	Completed: 7-16-91	
Drilling Method: Holl	ow Stem	Augers			Drilling	Fluids	(type):		
Annular Space Detai	ils		····					ns01 ft.	
Type of Surface Seal:	Holeplug			_		7		MSL Top of Protective Cas MSL Top of Riser Pipe	
Type of Annular Sealant: _					<del></del>			2 ft. Casing Stickup	
Amount of cement: = 0			ner hao	•				MSL Ground Surface	
					27.	2	<u> </u>	0 ft. Top of annular sealant	
Amount of bentonite: =	of bags	lbs.	per bag	-		48.			
Type of Bentonite Seal (Gra	nular. Pellet	):		-		, and			
amount of bentonite: = of B	ags		lbs. per bag		P. S.	o Not resident of			
Type of Sand Pack:Sa	nd #5			<del>,</del>	:		•,		
Source of Sand: GI	obal Dri	<u>lling</u>			:				
Amount of Sand: = of b	ags		lbs. per bag						
Well Construction M	aterials				:				
	3	<u></u>	3	3					
	Stainless Steel Specify Type	Teflan Specify Type	PVC Specify Type	Other Specify Type	1				
	inle: el cify	lan cify	cify	i i i i i i i i i i i i i i i i i i i					
	Ster	Tef. Spe	N ads	110 20c					
Riser coupling joint									
Riser pipe above w.t.			4"PVC						
Riser pipe below w.t.			. 11						
Screen			11						
Coupling joint screen to ris	er								
Protective casing									
Measurements	to	.01 ft. (w	here applica	ble)	$\bowtie$	₩		O ft. Top of Seal	
Riser pipe length	5'							5 ft. Total Seal Interval	
Protective casing length		<del></del>			$\stackrel{\sim}{\sim}$	A.X.4		ft. Top of Sand	
Screen length	20'							5 Fr. Top of Screen	
Bottom of screen to end car					; - =	- ·		ft. Top of Screen	
Top of screen to first joint						∃			
Total length of casing					18.F	3.31		20 ft. Total Screen Interva	
Screen slot size	0.010					∃ -∫			
Corectt afor area						∃:1			
of openings in screen	ŀ								
	11.5"					∃,:	•	25 ft. Bottom of Screen	

# APPENDIX 2 PURGE WELL LOCATION MAP

#### IPM GROUNDWATER SAMPLING

July 1991

WELLS CONSTITUENTS	1	2	4A	4B	5A	5AR	5B	9	12	14A
c-1,2-Dichloroethene	3300	ND	ND	470	ND	ND	ND	ND	ND	64
Tetrachloroethene	69	ND	ND	ND	ND	ND	ND	ND	ND	160
111-Trichloroethane	31	ND	ND	ND	ND	ND	ND	ND	ND	ND
112-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	140	ND	ND	ND	620	1500	15000
TOTAL COMPOUNDS	3400	0	0	610	0	0	0	620	1500	15000
WELLS CONSTITUENTS	16A	17A	17AR	17B	18A	18B	20A	20B	22A	
c-1,2-Dichloroethene	ND	ND	ND	33	470	ND	ND	ND	ND	
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	
111-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	
112-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Trichloroethene	ND	1	1	1800	15000	2000	7	ND	6	
TOTAL COMPOUNDS	0	1	1	1833	15470	2000	7	0	6	

# APPENDIX 3 CHEMICAL ANALYSIS FORMS

CODE CODE DIVISION	nvironment on of land i chemical ai	POLLU	TION	TION AGENCY CONTROL RM	Page 1 of 3
REPORT DUE DATE 10 , 01 , 9 1	FEDERAL ID NO			<u>, p 0 8 5 3 </u>	
REGION Maywood CO. Cook	5 0 7 2 RCRA	D.	e lastra ATE COL	LECTED 27 M / 25 D	
FACILITY NAME		(se	e Instru	ctions) 29	
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND	SAMPLE	Œ	TIME COLLECTED  54 (24 HR CLOCK)	55 H M 3â
DATE RECEIVED 42 M / D / Y 4.7  SAMPLING PURPOSE CODE 40	UNABLE TO CO: (see Instructions) MONITOR POIN			<del>39</del>	
TIME CARD	(see Instructions/			60 OTAER ISFECT CANICS (X) ORG	
SAMPLE APPEARANCE				- <del> </del>	
COLLECTOR COMMENTS					- Tol
SPECIAL INSTRUCTIONS TO LAB		<u>-                                    </u>	<del></del>		142
ACT		<del></del>			
Larry Poynter Hor	OR COMPANY =Lab use only=	TRANS	PORTI	AS ROISIVIQ YE C	
LAB SAMPLE NO. LAB NAME  DATE RECEIVED 07-26-91 AND ADDRESS  TIME RECEIVED SAMPLE PROPERLY PRES  L' COMMENTS TSO	SERVED (Y/N)	DATE CO	MPLET	LA3 ID NO. 14	
			SUP	ERVISOR SIGNATURE	
ECORD CODE   L   P   C   S   M   O   2   TRANS CO	DE LA! (COL	IMNS 9-1	e from	( ABOVE)	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER		OR >	VALUE	REPORTING LEVEL
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011	াহ াক	25-	ac	
ELEVATION OF GW SURFACE (ft. ref MSL)	i i	_   _	.   _		
WELL DEPTH ELEVATION (ft. ref MSL)	72020		_   _		-   -
DEPTH TO WATER FROM MEAS. PT. (ft)	72109		<u>.   _  </u>		_
	<u> </u>		<u> </u>		
	<u>                                     </u>		<u>.                                    </u>		_   _
			<u>                                     </u>		
		- -	·		
		_ -	<u>                                     </u>		_   _
<u> </u>	( - · <u>-  </u>	<u> </u>	<u> </u>	<u> </u>	<u>   -   -  </u>

RECORD CODE COR SIMIO 1 21 TRANS CODE AI TRA RCRA

Monitor point number  $\frac{M}{19} = \frac{W}{20} = \frac{0}{20}$ Date collected  $\frac{07}{22} = \frac{25}{M} = \frac{91}{22}$ EPA LAB (x or Blank)

FACILITY NAME				-	29	
LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	*******	*********	CR >		
BROMODICELOROMETEANE	3 2 L Q L	ক্র	্যুম	C	100	
BROMOFORM	32.104	_		<	100	_   _
BROMOMETEANE (Methyl Browide)	3 4 4 L 3.			<u>≤</u>	100	
CARBON TETRACELORIDE	3 2. 1 0 2			<u> </u>	100	
CHLOROBENZENE	343-0-1-		_	<b>S</b> .	100	
CHLOROETHAME	3 4 3 - 1 - 1 -		_	<	100	
2-CHLOROSIER VINYL ELHER				<u> </u>	100	_
CHICROFORM	32106			<u> </u>	100	_   _
CET OROMETE AND	3.4418		_	\$	100	.   _
DIBROMOGELOROMETHANE	<u>3 2 1 0 5</u>	-	_	Ś	_100	_   _
1,2-DICELOROSINZENE	3.4536			<b>&lt;</b>	_100	
1,3-DICHLOROBENZENE	34566			<	100	
I.4-DICHLOROBENZENE	3.4 5-7-1-		_	<	100	
DICELORODIFUCROMETHANE	3 4 6 6 8			<	100	_   _
1,1-DICELORCETFANE	34496-			<	_100	_
1,2-DICELOROETEANE	3 4 5 3 1_	_	_	\$	_100	_
t-1,2-DICHLOROFTHANE	34546			<-		_   _
1,2-DICELOROPROPANE	3 4 5 4 1.			<	100	. ] . ]
c-1,3-DICHLOROPROPANE	3 4 7 0 4			4.	1,00	.
c-1,3-DICELOROPROPANE	3 4 6 9 9			5	100	.   _
WEIGHT ENE CETORIDE	3 4 4 2 3	-		<	100	_   _
1,1,2,2-TETRACELOROETWANE	3 4 5 1 6.	i		<	100	
TETRACELOROETEME	3 4 4 7 5		_		69	_
1,1,1-TRICHLOROETHANE	3 4 5 0 6	•			. 31	_ ] _ ]
1,1,2-TRICHLOROETHANE	3 4.5 L L		_	<	. 100	_   _
TRICELOROETHENE	3 9 1 8 0		_	<	100	_ [ . ]
TRICELOROFLUOROMETHANE	3 4 4 8 8	<u>.</u> .		<	100	
VINYL CELORIDE	3 9 1 7 5			4	100	.   .

RECORD CODE LIPICISIMIO 121 TRANS CODE AL SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 REGION Maybood Co. Cook RCRA

MONITOR POINT NUMBER M W 0 1

DATE COLLECTED 07 / 25 / 91

TEPA LAB (2 or Slank) 29

FACILITY NAME

FACILITY NAME						
Lab measurements  constituent description and  required unit of measure	STORET . NUMBER	******	********	V CR /	VALJE	ALTORTING LEVEL
BENZENE	34030	.35	उद	<u> </u>		18 19
TOLUENE	34.0.1.0		_	₹.	1	
XYLENES	_8_1_5_1			<	1 	
c-1,2, Dichloroethene	<u>4 5 6 2 7</u>				_ 3300 •	_   _
	<u> </u>		_		<u> </u>	
			_			
			_	_	· · <u>- • </u>	
		_				_   _
				-		_   _
		_	-	-		_ _
				_		_ _
			_			_   _
		-	_	_		.   _   _
		_		-		.   _   _
		<u> </u>	_	-		<u> </u>
			_			-   -   -
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	1					
		<u> </u>	<u> </u>			_ _
			_			T - L -
		-	<u> </u>	-		
			<u>                                     </u>			
	<u> </u>	-	-	-		
			-	<u> </u>		.   _   -
		<del>                                     </del>	<u> </u>	•		
	· · · ·	<u> </u>	<u> </u>	<del>                                     </del>		
<u>i</u>		<u> </u>	1	<u>1 ·                                    </u>		<u> </u>

PICISIMIO LI LA	, , , , , , , , , , , , ,	ON OF LAND I CHEMICAL AI				Page 1	.cf_	≥_
REPORT DUE DATE 10					D 0 8 5 3	<u>5 2 4</u>	<u> 7</u>	4
F TINVENTORY NUMBER O		5 <u>0 7 2</u> RCRA	DAT	I COLLE	$\frac{1}{2} \sqrt{-\frac{2}{2}}$	0 2 , 91 , y 2	3	
IPM FACILITY NAN	Œ		EP.	A LAB (± 0 Instruction	or Blank) 29			
R IEPA USE ONLY COM	IPLAINT NO.	BACKGROUND	Sample (	ξ) <del>ξα</del>	TIME COLLECTED		_:	M 55
MPLING PURPOSE CODE  Instructional  E CARD	& CHIL CODE 22 6	UNABLE TO CO (see Instructions) MONITOR POIN (see Instructions)	T SAMPLE	MPLE ;	(24 HR CLOCK)  55  67  67  67  68  68  68  68  68  68  68			-# 33 3 <u>3</u>
SAMPLE APPEARANCE								
COLLECTOR COMMENT						- Tu: 		
SPECIAL INSTRUCTIONS TO LA			<del></del> _					
<u> </u>	LDP ASI	OR COMPANY LAB USE ONLY	Transf	ORTED 8	AS RO KOISIVIQ Y			
DATE RECEIVED 07-26-91 TIME RECEIVED FAMPLE TEMP OKAY TYNN LAF MMENTS TEO		ERVED (Y/N)	DATE COM	PLETED	143 ID NO. 14		*	
					VISOR SIGNATURE			
ORD CODE [LIPICISIY	I 0   2   TRANS CO	DE 🕍 (COL:	UMNS 9-29	FROM A	307.51			
FIELD MEASURED CONSTITUENT DESCRIP REQUIRED UNIT OF S	ENTS TION AND	STORET NUMBER		V OR >	VALUE	-	REPORT LEVI	
TEMP OF WATER SAMPL	E (unfiltered)(°f)	<u>0</u> 0 0 1 1	.55 .75			<u> </u> جي '-	<del></del>	<u>13</u>
ELEVATION OF GW SUR	FACE (ft. ref MSL)	71993.	_   _	_ _			_	]
WELL DEPTH ELEVATION		72020				}	_ }	_]
DEPTH TO WATER FROM		72109						
			_   _					_
			_   _	-1-				
								_
			_					

LLLINOIS ENVIRONMENTAL PROTECTION AGENCY

والمديد

RECORD CODE LIPICISIMIO 121 TRANS CODE AL SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 REGION Maywood CO. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{0}{2}$ DATE COLLECTED  $\frac{07}{23} = \frac{25}{4} = \frac{91}{23}$ EFA LAB (2 or 3lank)  $\frac{29}{29}$ 

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	******		V OR A	AYTAE	REPORTING LEVEL
BENZINE	34030	35	<b>7</b> 6	く	1	
TOLUENE	34010			<b>₹</b>	1	
XXTENES	_8_1_5_5_1		_	<b>∠</b>	1	<u>  _   _</u>
c-1,2, Dichloroethene	4 5 6 2 7.	<b>-</b> -		<u> </u>		<u>  _   _ </u>
						<u>  _   _</u>
				_		<u>                                     </u>
		-	_	-		
	<u> </u>			_		1_1_
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	<u> </u>	.	-	<b>-</b>	· · · · · · · · · · · · · · · · · · ·	<u> </u>
	<u> </u>	<u> </u>		-		<u> </u>
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			_			<u> </u>
		-	-			

RECORD CODE LIPICISIMIO 1 21 TEANS CODE LAI

LITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Mayrood CO. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{0.2}{25}$ DATE COLLECTED  $\frac{0.7}{22} = \frac{0.25}{M} = \frac{0.2}{23}$ IEPA LAB (x or Blank)

Lab Measurements  constituent description and  required unit of Measure	STORET NUMBER	*******	*********	ν <sub>o</sub> R λ	VALUE		
BROMODICELOROMETHANE	3 2 1 0 1	3	ाह	4			<del>,,</del>
BROMOFORM	32104			<u> </u>	1		
BROMOMETEANE (Methyl Bromide)	3 4 4 1 3.			<u>く</u>	1		
CARBON TETRACHIOREDE	<u>3 2. I_0_2</u>			<.			
CELOROBENZENE	3 4:3-G-L		_	≤.	1	!	
CELOROSTEANS	3 4. 3. 1. 1		_	<	1		
2-CHLOROETHIL VINYL EIER		-	_	<	1	_	
CELOROFORM	32106	-		<b>\$</b>	1	_	-
CELOROMETHANE	3.4418	Į		<	1	_	_
DIBROMOGELOROMETHANE	32105		_	5	1		
1,2-0icelorobenzene	3.4536	-	_	<b>Ś</b>	1		
1,3-DICHLOROSENZEME	3 4 5 6 6			<			
1.4-DICHLOROSENZEME	3. 4 5-7-1-	-		4			
DICELORODIFUOROMETHANE	34668	-			1		
L, L-DICHLORCETHANE	34496		<b>-</b>	<	1		
1,2-DICHLOROETHANE	3 4 5 3 1_	-	_	<b>≤</b> .	1		
t-1,2-DICHLORGETHANE	34546		_	5		<u>  _ </u>	
1,2-DICHLOROPHOPANE	3 4 5 4 1.			<	1	<u> </u>	
c-1,3-DICHLOROPROPANE	3 4 7 0 4	•		4	1		_
t-1,3-DICELOROFROPANE	3 4 6 9 9			<	1. •	<u> </u>	
METHYLENE CHLORIDE	3 4 4 2 3	•		<	1	<u> </u>	
1,1,2,2-TETRACHLOROETMANE	3 4 5 1 6.		_	<	1	<u> </u>	
TETRACELOROETEME	34475		_	<	1	<u> </u>	
1,1,1-TRICHLOROETHANE	3 4 5 0 6	-	. <b>.</b> .	<b>4</b>	1		
1,1,2-TRICHLORGETHANE	3 4.5 L L	-	_	1		<u> </u>	
TRICELOROETHENE	3 9 1 8 0	-	-	4	1		
TRICHLOROFLUOROMETHANE	3 4 4 8 8	<b>.</b> .		<	1		_
VINYL CHLORIDE	3 9 1 7 5			4	1	<u> </u>	_

RECORD CODE LIPICISIMIO 121 TRANS CODE AL

LITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood Co. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER M W 0 4A

DATE COLLECTED 07 25 91

EPA LAB (x or Black)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	***		V OR >		AYTHE	REPORTING LEVEL
BROMODICELORCMETEANE	32101	3	28	<	1		COM ST. THEFT WALL
BROMOFORM	32.104	_	_	<	1		<u>                                     </u>
BROMOMETEANE (Methyl Bromide)	34413.			4	11_		
CARBON TETRACELORIDE	3 2 1 0 2			4	1_		
CELOROBENZENE	34361		_	۷.	1_		
CHI CROETHANG	3 4 3 1 1		_	<	1		
2-CHICROFIEL VINVI FIER		-	_	4	1.		
CELOROFORM	32106	_		<	1		
CELOROMETEANE	3.4418			<	1		
DIBROMOGELOROMETEAME	<u>3 2 1 0 5  </u>		_	<	1	•	
1,2-DICELOROBENZENE	3.4 5 3 6.	_	_	<	1		
1,3-DICELOROSENZENE	3 4 5 6 6		_	<	1		
1.4-DICELORGENZENE	3. 4 5-7-1-		_	<	1		
DICELORODIFUCROMETEANE	3.4.6.6.8.	_	<u>_</u>	<u> </u>	1		
I,1-DICELOROETEANE	34496		_	<u> </u>	1		
1,2-DICELOROETEANE	3 4 5 3 1_			2	1		
t-1,2-DICHLORCHIHANE	3-4-5-4-6-			<u> </u>	1		
1,2-DICHLOROPROPANE	3 4 5 4 1	-	_	<u> </u>	1		
c-1,3-DICELOROPROPANE	34704		<del></del>	<u> </u>	1		
t-1,3-DICELOROPROPANE	3 4 6 9 9		i	<u> </u>	1	•	
WENEXTENE CETORIDE			Ť	<	1	3. <b>6</b>	
1,1,2,2-TETRACETOROETEANE		<u>.</u>			1	• • • • • • • •	
TETRACHLOROETHINE	34475				11		
1,1,1-TRICHLOROETHANE	3 4 5 0 6-		1		1		
1,1,2-TRICELOROETHANE	3 4.5 1 L			ζ .	1		
TRICHLOROETHENE	3 9 1 8 0	<del>'</del>			1		
	2 / / 2 2			<u> </u>	1		-   -
WINES OF STREET	3 9 1 7 5				1		-
Onis Keypunch lama				7	• •	• • • • • • •	-   -

RECORD CODE LIPICISIMIO 121 TRANS CODE A
SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 7
REGION Mayrood Co. Cook RCRA

MONITOR POINT NUMBER MW 0 4A

DATE COLLECTED 07 / 25 / 91
TETA LAB (7 or 3lank)

FACILITY NAME EPA LAB (± of 3lank) 29

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER	* . 9		OR >	VALUE	AZZORTING LEVEL PROPERTY THE PROPERTY THE PROPERTY
BENZINE	3 4 0 3 0	22	ुव्ह	Ç	1	15 19
TOLUENE	34.QLQ			₹	1	
XYLENES	8_1_5_1_			<	1	<u> </u>
c-1,2, Dichloroethene	<u>4 5 6 2 7</u>			ζ.	1	
						_   _
			_			
		-		-		
		-				_
			-			
	<u> </u>			_		
		<b></b>		_	<u></u>	<u> </u>
		<u></u>				
		-		<u> </u>		_ -
		_	<b></b>	_		<u> </u>
		_	_	_		<u>  _   _</u>
			_	-		<u>  _   _ </u>
						<u>  .   .</u>
·				<u> </u>	• • • •	
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		-	-			<u> </u>
			_			<u> </u>
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		-	_	1.		<u>                                     </u>
			-			
	<u> </u>		-			

CODE CODE DIVISI	NVIRONMENTAL PROTECTION AGENCY ON OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM Page 1 of
REPORT DUE DATE 10 , 01 , 9 1	FEDERAL ID NUMBER I L D O 8 5 3 5 2 4 7 4
TE INVENTORY NUMBER 0 3 1 0 6 3  REGION Maywood co. Cook  IPM  FACILITY NAME	5 0 7 2 MONITOR POINT NUMBER M W 0 4A  (see Instructions) 07 , 25 , 91  RCRA DATE COLLECTED 27 M D , 25  IEPA LAB (x or Blank) 29  (see Instructions)
OR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAMPLE (X) TIME COLLECTED 55 H M 56
MPLING PURPOSE CODE Instructional AE CARD GGRAM CODE  49  52  WINT CODE 53	UNABLE TO COLLECT SAMPLE (see Instructions)  MONITOR POINT SAMPLED BY (see Instructions)  SAMPLE FIELD FILTERED - INORGANICS (X)  TO THER (SPECIFY)  SAMPLE FIELD FILTERED - INORGANICS (X)  TO THERE (SPECIFY)
SAMPLE APPEARANCE	
COLLECTOR COMMENTS	
SPECIAL INSTRUCTIONS TO LAB	
كالمرابا الأراق	OR COMPANY TRANSPORTED BY DIVISION OR COMPANY  =LAB USE ONLY
TIME RECEIVED  SAMPLE TEMP OKAY (YM) SAMPLE PROPERLY PRES  L) OMMENTS TED	SERVED (Y/N) DATE COMPLETED 08-02-91 FORWARD
	SUPERVISOR SIGNATURE
ORD CODE LIPICIS   MIO 1 2 ! TRANS CO	DE A (COLUMNS 9-29 FROM ABOVE)
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET OR VALUE  NUMBER  **REPORTING LEVEL**  OR VALUE  ***********************************
TEMP OF WATER SAMPLE (unfiltered)("f)	
ELEVATION OF GW SURFACE (ft. ref MSL)	71993
WELL DEPTH ELEVATION (ft. ref MSL)	72020
DEPTH TO WATER FROM MEAS. PT. (ft)	72109
<del></del>	

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

IPICISIMIOILI (A)	ON OF LAND POLLUTION CONTROL Page 1 of SCHEMICAL ANALYSIS FORM
REPORT DUE DATE 10 01 01	FEDERAL ID NUMBER
REGION Maywood co. Cook	5 0 7 2 MONITOR POINT NUMBER M W 0 4B  18 (see Instructions) 07 , 25 , 91  RCRA DATE COLLECTED 23 M D Y 25
IPM CO. GOOR	TEPA LIB (won Blank)
FACILITY NAME	(see Instructions) 29
OR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAMPLE (X) TIME COLLECTED S5 H M 58
SAMPLE APPEARANCE	UNABLE TO COLLECT SAMPLE (see Instructions)  MONITOR POINT SAMPLED BY (see Instructions)  SAMPLE FIELD FILTERED - INORGANICS (X) 61 ORGANICS (X) 62
COLLECTOR COMMENTS	
SPECIAL INSTRUCTIONS TO LAB	
Larry Poynter LDP ASI COLLECTED BY INITIALS DIVISION	A51
LAB SAMPLE NO. LAB NAME	SERVED ON DATE COMPLETED 08-05-91 FORWARD
CORD CODE LIPICISIMIO 1 2 1 TRANS CO	SUPERVISOR SIGNATURE  DDE A GOLUMNS 9-29 FROM ABOVE
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET OR VALUE
TEMP OF WATER SAMPLE (unfiltered)(°f)	
ELEVATION OF GW SURFACE (ft. ref MSL)	71993
WELL DEPTH ELEVATION (ft. ref MSL)	72020
DEPTH TO WATER FROM MEAS. PT. (ft)	72109
	<u> </u>
The Appendix	<u> </u>

LLLINUIS ENVIRONMENTAL PROTECTION AGENCY

RECORD CODE LIPICISIMIO 121 TRANS CODE LAI

ATTE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

RECION MAYDOOD CO. Cook RCRA

MONITOR POINT NUMBER  $\frac{M}{19} \frac{W}{0} \frac{0}{25} \frac{4B}{25}$ DATE COLLECTED  $\frac{07}{23} \frac{25}{M} \frac{91}{0} \frac{1}{25}$ 

FACILITY NAME

[EPA LAB (g or Black) 29

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND BEQUIRED UNIT OF MEASURE	STORET NUMBER	***		OR	VALUE	REPORTUGE LEVEL PROPERTY 1 CONTROL TOTAL CONTROL
BROMODICELOROMETHANE	3 2 L 0 L	34	ाह	4		- 15
BROMOFORM	32104		_	<	5	_   _
BROMOMETEANT (Methyl Browide)	34453			<	5	
CARBON TETRACHORIDE	3 2 1 0 2			<b>&lt;.</b>	<u> </u>	_   _
CELOROBENZEME	343-6-1-			<b>\( \)</b>	<u> 5 · </u>	_   _
CELOROETEANE	3 4 3-1-1-			<	5	_   _
2-CHLOROFTHY VINYL ETHER			_	<	5	
CHICROFORM	32106	_		<	5 •	_   _
CHLOROME TRANE	3. 4 4 1 8			<	5	_   _
DIBROMO GELOROMETHANE	32105		_	<	5	
1,2-DICHLORCHMZENE	3.4 5 3 6		-	<	5	_   _
1,3-DICHLOROSENZENE	34566		_	<		_   _
1,4-DICHLOROSENZENE	3. 4 5. 7-1-	-	_	<	5 •	_   _
DICELORODIFICROMETHANE	3.4668	_	-	<		_ _
1,1-DICHLORGE FANE	34496			<	5	
1,2-DICHLOROETFANE	3 4 5 3 1	_	_	<	5	
t-1,2-DICELORGETHANE	34546			<b> </b>	5	<u> </u>
1,2-DICELOROPROPANE	3 4 5 4 1		-	<	.5	_   _
c-1,3-DICELORGPROPANE	3 4 7 0 4			≼.	5	
t-1,3-DICHLORGPROPANE	3 4 6 9 9		_	<	5	
WEIEXTENE GETORIDE	3 4 4 2 3	_		<	5	
1,1,2,2-TETRACHIOROETHANE	3 4 5 1 6.		_	<	5	_
TETRACELOROFTHNE	3 4 4 7 5			<	5	
1,1,1-TRICHLOROETHANE	3 4-5 0 6	_		4	5	
1,1,2-TRICHLOROFTHANE	3 4.5 1 L		-	€	5	_   _
TRICHLOROETHE	3 9 1 8 0		 	<u> </u>	140	_ -
TRICELOROFLUORCMETHANE	3 4 4 8 8			<	5	
VINYL CHLORIDE	3 9 1 7 5	-		<u>.</u> ج	i <u>-</u>	
	e- with Data in Column	15.00	Cainn	<u> </u>		<u> </u>

RECORD CODE LIPICISIMIO 1 21 TRANS CODE LA STE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 REGION Mayrood CO. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{W}{W} = \frac{0}{22} \frac{4B}{W}$ DATE COLLECTED  $\frac{07}{22} = \frac{25}{M} = \frac{91}{23}$ EPA LAB (2 of Blank)  $\frac{19}{29}$ 

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	*******	********	۷ æ ۸	VALUE DESTRUCTION
BENZINE	3 4 0 3 0	35	ांस:	<b>4</b>	1 1 10
TOLUENE	34010		_	<b>〈</b>	1
XAT EMER	_8_1_5_5_1		_	<b>〈</b>	1
c-1,2, Dichloroethene	<u>4 5 6 2 7.</u>				470
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CODE CODE DIVISI	ON OF LAND P CHEMICAL AN	OLLUT	ION		Page 1 of 3
REPORT DUE DATE 10 , 01 , 9 1	FEDERAL ID NU	MBER	I I	D 0 8 5 3	5 2 4 7 4
E INVENTORY NUMBER 0 3 I 0 6 3  REGION Maywood CO. Cook  IPM  FACILITY NAME	5 0 7 2 RCRA	(see DAI IEP.	Instruc E COL	LECTED 23 M / 25 (x or Blank)	
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND S	AMPLE C	χij.	TIME COLLECTED	•
DATE RECEIVED 42 M D / Y47  AMPLING PURPOSE CODE 40  TIME CARD ROGRAM CODE 49 52 & UNIT CODE 53	UNABLE TO COL (see Instructions) MONITOR POINT (see Instructions) SAMPLE FIELD FIL	r sample	MPLE D BY	59 OTHER GREET	55 H M 5
SAMPLE APPEARANCE					
COLLECTOR COMMENTS  TUE  SPECIAL INSTRUCTIONS TO LAB					— का — — — कर
GF 1012 ENGINEERING FOR EAST					
المناج الاستام المناج ا	or company =lab use only=	Transf	ORTE	AA RO MOIZIVIO YE C	
LAB SAMPLE NO. LAB NAME DATE RECEIVED 07-26-91				LAS ID NO. TA	e = = = =
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES	SEKAED (AVA) D	ATE COM	PLET		
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED	SERVED TANN D	ATE COM			)
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED		ATE COM	SUP	08–05–9 <sup>1</sup> forward	)
DATE RECEIVED 07-26-91  TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES  L. OMMENTS  TED  CORD CODE   L   P   C   S   M   0   2   TRANS CO  FIELD MEASUREMENTS  CONSTITUENT DESCRIPTION AND  REQUIRED UNIT OF MEASURE	STORET NUMBER		SUP	08–05–9 <sup>1</sup> forward	)
DATE RECEIVED 07-26-91  TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES  L. OMMENTS  TED  CORD CODE   L   P   C   S   M   0   2   TRANS CO  FIELD MEASUREMENTS  CONSTITUENT DESCRIPTION AND  REQUIRED UNIT OF MEASURE	STORET NUMBER	MNS 9-29	SUP FROM OR OR	ERVISOR SIGNATURE (ABOVE)	TS9  REPORTING LEVEL
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES L: OMMENTS 150  CORD CODE [L   P   C   S   M   0   2   TRANS CO  FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered) (°f)	STORET NUMBER	MNS 9-29	SUP FROM OR >	D 08–05–9 <sup>1</sup> forward ERVISOR SIGNATURE	TS9  REPORTING LEVEL  INC. 14 CO. 15
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES L: OMMENTS 150  CORD CODE L   P   C   S   M   0   2   TRANS CO  FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f)    ELEVATION OF GW SURFACE (ft. ref MEL)	STORET NUMBER  0 0 0 1 1 1 7 1 9 9 3	MNS 9-29	SUP FROM OR OR	ERVISOR SIGNATURE (ABOVE)	TS9  REPORTING LEVEL  INC. 14 CO. 15
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES L: OMMENTS 150  CORD CODE L   P   C   S   M   0   2   TRANS CO  FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f)    ELEVATION OF GW SURFACE (ft. ref MSL)  WELL DEPTH ELEVATION (ft. ref MSL)	STORET NUMBER    0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MNS 9-29	SUP FROM OR OR	ERVISOR SIGNATURE (ABOVE)	TS9  REPORTING LEVEL  INC. 14 CO. 15
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES L: OMMENTS 150  CORD CODE L   P   C   S   M   0   2   TRANS CO  FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f)    ELEVATION OF GW SURFACE (ft. ref MEL)	STORET NUMBER    0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MNS 9-29	SUP FROM OR OR	ERVISOR SIGNATURE (ABOVE)	TS9  REPORTING LEVEL  INC. 14 CO. 15
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES L: OMMENTS 150  CORD CODE L   P   C   S   M   0   2   TRANS CO  FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f)    ELEVATION OF GW SURFACE (ft. ref MSL)  WELL DEPTH ELEVATION (ft. ref MSL)	STORET NUMBER    0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MNS 9-29	SUP FROM OR OR	ERVISOR SIGNATURE (ABOVE)	TS9  REPORTING LEVEL  INC. 14 CO. 15
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES L: OMMENTS 150  CORD CODE L   P   C   S   M   0   2   TRANS CO  FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f)    ELEVATION OF GW SURFACE (ft. ref MSL)  WELL DEPTH ELEVATION (ft. ref MSL)	STORET NUMBER    0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MNS 9-29	SUP FROM OR OR	ERVISOR SIGNATURE (ABOVE)	TS9  REPORTING LEVEL  INC. 14 CO. 15
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES L: OMMENTS 150  CORD CODE L   P   C   S   M   0   2   TRANS CO  FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f)    ELEVATION OF GW SURFACE (ft. ref MSL)  WELL DEPTH ELEVATION (ft. ref MSL)	STORET NUMBER    0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MNS 9-29	SUP FROM OR OR	ERVISOR SIGNATURE (ABOVE)	TS9  REPORTING LEVEL  INC. 14 CO. 15
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP ORAY (Y/N) SAMPLE PROPERLY PRES L: OMMENTS 150  CORD CODE L   P   C   S   M   0   2   TRANS CO  FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f)    ELEVATION OF GW SURFACE (ft. ref MSL)  WELL DEPTH ELEVATION (ft. ref MSL)	STORET NUMBER    0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MNS 9-29	SUP FROM OR OR	ERVISOR SIGNATURE (ABOVE)	TS9  REPORTING LEVEL  INC. 14 CO. 15

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

RECORD CODE LIPICIS | MIO 1 2 | TRANS CODE LA SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 REGION Maywood CO. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER M W 0 5A

DATE COLLECTED 07 , 25 , 91

TEPA LAB (x or 3 lank) 19

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET .	******		V OR	VALUE	AEFORTING LEVEL
		3;	<u> </u>	>	5	HE E SHITMAL
BENZENE	34030	35	্দ্ৰ	<b> </b>	<del></del>	च्य ब्य
TOLUENE	3 4 Q L Q	_		< \	5	
X(LENES	_8_1_5_5_1		_	4	5	_
c-1,2, Dichloroethene	4 5 6 2 7	<b>-</b> -		<b>&lt;</b>	1 - •	_   _
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RECORD CODE LIPICIS MIO 121 TRANS CODE LAI

LITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maybood CO. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER M W 0 5A

DATE COLLECTED 07 , 25 , 91

EPA LAB (z or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	0.9444	2   3	OF >	VALUE	REPORTING LEVEL
BROMODICELOROMETEANE	3 2 L Q L	7 72	5 5	. <	1	142 [14784]
BROMOFORM	32.104	1	_   _	<	1	\
BROMOMETERNE (Methyl Browide)	3 4 4 1 3	.   _	$T_{\perp}$	.   <		
CARBON TETRACELORIDE	3 2 1 0 2	.	.   _	14		
CETOROBENZENE	3 4 3 6 1		1_	4		
CELOROSTEANS	3 4 3 1 1	.	.   _	1		
2-CHIOROFTHY VINYL BIHER			_	1	1	
CELOROFORM	32106	-	1.	1	1	
CELOROMETTANE	3.4418		1_	1	1	
DIBROMOGELOROMETHANE	32105	1.	1_	4	1	
1,2-DICELORGSENZENE	34536	.	<u> </u>	<	1.	
1,3-DICHLOROSENZENE	34566		1_	1	1	
1.4-DICELOROBENZENE	3.4.5.7-1-	-	_	1		
DICELORODIFUCROMETHANE	34668		_	<	1	
1,1-DICHLORGEHANE	34496			<	1	
1,2-DICHLOROFTANE	3 4 5 3 L	_		<	1	
t-1,2-DICELORGETHANE	34546			<	1	
1,2-DICELOROPROPANE	3 4 5 4 1		_	<	1	
c-1,3-DICHLOROPROPANE	3 4 7 0 4			4	1	
t-1,3-DICHLOROPROPANE	3 4 6 9 9			4	1.	
	3 4 4 2 3	_	<u> </u>	<u> </u>	1	
1 1 0 4 -	3 4 5 L 6.			2	1	
TETRACELOROELEENE	3 4 4 7 5			<	1	
	3-4-5-0-6	-12		<		
	3 4 5 1 1	_	_	<	1	
TRICE ORGEN	3 9 1 8 0		_	<u>\</u>		
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77777	3 9 1 7 5	-		<u>ک</u> ح	1	
White Keypanch lanes w	- 1					-   -

	NVIRONMENT ON OF LAND F CHEMICAL AN	OLLU	TION		age 1 of <u>3</u>
REPORT DUE DATE 10 , 01 , 9 1 V +1	FEDERAL ID NU			<u>D 0 8 5 3 5</u>	
FINVENTORY NUMBER 0 3 1 0 6 3  REGION Maywood co. Cook  IPM  FACILITY NAME	5 0 7 2 18 RCRA	IE		POINT NUMBER MW 0 ctions) 07 / 25 / LECTED 23 M D / (x or Blank) 29 ctions)	5AR 91 Y 23
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND S	AMPLE	(X)	TIME COLLECTED	55 H M 58
AMPLING PURPOSE CODE  AMPLING PURPOSE CODE  ME CARD  ROGRAM CODE  49  52  42  M	UNABLE TO COI (see Instructions) MONITOR POINT (see Instructions) SAMPLE FIELD FII	SAMP	Sample Led by	59 OTHER GRECKY	
SAMPLE APPEARANCE  GULLECTOR COMMENTS  TOS  SPECIAL INSTRUCTIONS TO LAS					 102  42
Larry Poynter LDP ASI COLLECTED BY INITIALS DIVISION	OR COMPANY =LAB USE ONLY=	Tran	SPORTE	ASI DIVISION OR CO	MPANY
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP OKAY TYNN SAMPLE PROPERLY PRE LA DMMENTS TEO	D TANKE	DATE CO	OMPLET	ED 08-02-91 FORWARD	
			SUP	PERVISOR SIGNATURE	
CORD CODE   LIPICISIMIO 12 TRANS CO	DDE A COLU	MNS 9-	29 7701	ISVOEA M	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	727 - 777	OR	VALUE	REPORTING LEVEL
TEMP OF WATER SAMPLE (unfiltered)("f		35 36			- ;; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;
ELEVATION OF GW SURFACE (ft. ref MSL	i		_   _		_
WELL DEPTH ELEVATION (ft. ref MSL)	1	_   _	_   _		_
DEPTH TO WATER FROM MEAS. PT. (ft)	12109		_   _		_
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LLLINOIS ENVIRONMENTAL PROTECTION AGENCY

RECORD CODE LIPICISIMIO 121 TRANS CODE LA!

ATE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Mayucod Co. Cook RCRA

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{W}{25} = \frac{0.5AR}{25}$ DATE COLLECTED  $\frac{0.7}{25} = \frac{0.5AR}{25} = \frac{0.5AR}$ 

FACILITY NAME

EPA LAB (z or Blank)

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	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	*******	**1*	OR >	VALUE CONTROL
	BROMODICELOROMETHANE	32 LOL	337	ाह	4	<u></u>
	BROMOFORM	22104	_		<	
	BRCMCMETEANE (Methyl Bromide)	34413		_	<	
	CARBON TETRACHLORIDE	3 2 1 0 2			<	
	CELOROBENZEIE	3 4 3 0 1	<u>.</u>		<	1
	CELOROETEANE	3 4. 3. 1. 1.		-	<	
	2-CHLOROETHYL FIRER			_	<	1
	CHLOROFORM	32106	-		<	1   _   .
	CELOROMETEANE	3.4418		_	<	
	DIBROMOGELOROMETEANE	32105	. :		4	
1	1,2-DICHLOROSENZENE	3 4 5 3 6.		_	2	
	1,3-DICHLORGENZENE	34566		-	<	1
	1.4-DICHLOROBENZENE	3. 4 3-7-1-	-		<	
	DICELORODIFUCROMETEANE	34668		_	1	1
	1,1-DIGHIORGETHANE	3 4 4 9 6			1	
	1,2-DICHLOROETHANE	3 4, 5, 3, 1_			<	
	c-1,2-DICHLOROETHANE	3 4 5 4 6			1	
	1,2-Dicelorofropane	3 4 5 4 1.		-	<	1
	c-1,3-DICHLOROPROPANE	3 4 7 0 4			4	. 1
	t-1,3-DICELOROPROPANE	3 4 6 9 9			<	1
	METHYLENE CELORIDE	3 4 4 2 3	-		1	1
	1,1,2,2-TETRACELOROETEANE	3 4 5 1 6.	1	-	<	1
	TETRACELOROETENE	34475		_	<	1
	1,1,1-TRICELOROFTHANE	3 4 5 0 6	-		<	1
	1,1,2-IRICELOROFTHANE	3 4.5 L L	1.	-	<	1
<del></del>	TRICELOROETEENE	3 9 1 8 0	1.	_	<	1
1	TRI CELO ROFLUOROMETHANE	3 4 4 8 8			<	1
Ť	VINYL CHLORIDE	3 9 1 7 5	1		<	1
ــــــــــــــــــــــــــــــــــــــ	** York Kartenaris Lin	- mark Organism Columb	- 75			

CHEMICAL ANALYSIS FORM

RECORD CODE | L | P | C | S | M | O | 2 | TRANS CODE | A | SITE INVENTORY NUMBER  $0.3.1.0.6.3.5.0.7.\frac{2}{18}$ 

REGION Maywood CO. Cook

RCRA

MONITOR POINT NUMBER M W 0 5AR

EPA LAB (z or Blank) 29

FACILITY NAME

	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER	******	********	CR >	VALUE PARTING LEVEL PARTING LE
	BENZENE	3 4 0 3 0	22	্যুদ	4	1 7
	TOLUENE	34.0.L.O.			۷	1
	XYLENES	8-1-5-1			۷	1
	c-1,2, Dichloroethene	4 5 6 2 7			<	
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		- with Data in Column		<u>.                                    </u>	1	

CODE CODE DIVISION	n of Land P Chemical An	OLLUI	NOI		1 of <u>3</u>
REPORT DUE DATE $\frac{10}{36}$ $\frac{01}{M}$ $\frac{1}{D}$ $\frac{1}{Y+1}$	FEDERAL ID NU	MBER	I I	<u>D 0 8 5 3 5 2</u>	4 7 4
REGION MAYWOOD CO. Cook  IPM  FACILITY NAME	5 <u>0 7 2</u> RCRA	IEP	a Lab	POINT NUMBER M W 0 2 ctions) 07 / 25 / 91 LECTED 23 M D Y (x or Blank) 29	B TA
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND S	AMPLE (	X)	TIME COLLECTED	:
DATE RECEIVED 42 M / D / Y 47  SAMPLING PURPOSE CODE 40  IMME CARD PROGRAM CODE 49 52	UNABLE TO COI (see Instructions) MONITOR POINT (see Instructions) SAMPLE FIELD FII	t sampli	MPLE ID 3Y	59	
SAMPLE APPEARANCE					
COLLECTOR COMMENTS					
SPECIAL INSTRUCTIONS TO LAB					<del></del>
المباهات الماء	or company =Lab use only=	TRANS	ORTE	ASI D BY DIVISION OR COMP.	ANY
DATE RECEIVED AND ADDRESS TIME RECEIVED SAMPLE PROPERLY PRES L. 'OMMENTS	ERVED (Y/N)	DATE COS	(PLIT	08-02-91 FORWARD	
<u> </u>			SUF	ervisor signature	
ICORD CODE LIPICISIMIO 12 TRANS CO	DE LA! (COLU	MNS 9-29	FROS	( ABOVE)	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	***	OR >	VALUE	JEVEL JEVEL
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011	15 JK	<u></u>		क ह
ELEVATION OF GW SURFACE (ft. ref MSL)	719.9.3.	_   _	_		
WELL DEPTH ELEVATION (ft. ref MSL)	72020	_ _			-   -
DEPTH TO WATER FROM MEAS. PT. (ft)	72109		_		.   _   _
			_		<u>-   -   -  </u>
			<u>   </u>		
			-		
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RECORD CODE | L| P| C| S| M| 0 | 2 | TRANS CODE | A|

LITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Mayrood CO. Cook RCRA

Monitor point number  $\frac{M}{19} = \frac{W}{25} = \frac{0}{25}$  Date collected  $\frac{07}{25} = \frac{25}{91} = \frac{91}{25}$ 

FACILITY NAME

IEPA LAB (2 or Blank)

			سيستناس					
	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNT OF MEASURE	STORET NUMBER		******	V & V	VALUE	LEV meions	1
	BROMODICHLOROMETHANE	3 2 L Q L		SK.	<b>4</b>	1 - 1		19
	BROMOFORM	22104			<b>∠</b>	1		
	BROMOMETHANE (Methyl Bromide)	34413.			4	1		
	CARBON TETRACHORIDE	3 2 1 0 2			<			_
	CELOROBENZEYE	3 4-3-6-1-		_	4	i		
	CHLOROETHAND	3 4. 3. L. l		_	<		_	
	2-CELOROETEKI VINYI ETEER		-		<	1		
	CELOROFORM	32106			۷.	1		_
	CELOROMETEANE	3.4418		-	4	1		
	DIBROMOCELORCHETEANE	32105		_	<	1		_
	1,2-DICELORGENZENE	34536		-	2			
	1,3-DICELORGENZENE	3 4 5 6 6			4			
	L.4-DICELOROBENZENE	3.4 5-7-1-	-	_	<	<sup>1</sup>	<u> </u>	
	DICELORODIFUORCMETHANE	3.4668	-		4			<u> </u>
	1,1-DICHLORGETEANE	34496		<b>-</b> .	<	<sup>1</sup>	<u> </u>	<u> </u>
	1,2-DICELOROFTEANE	3 4 5 3 1_			<	1	<u> </u>	<u> </u>
	t-1,2-DICHLOROFTHANE	34546			2	1	<u> </u>	<u>                                     </u>
	1,2-DICELOROPROPANE	3 4 5 4 1			4	I	<u> </u>	<u> </u>
	c-1,3-DICHLORGPROPANE	3 4 Z O 4	-		4	1		<u> </u>
	t-1,3-DICHLOROPROPANE	3 4 6 9 9			<	1.	<u>  -</u>	<u> </u>
	WEITHYLENG CHLOREDE	3 4 4 2 3			<	1	<u> </u>	<u> </u>
	1,1,2,2-TETRACE OROET AND	3 4 5 L 6.	-		<	1		<u> </u>
	TETRACELOROETENE	3 4 4 7 5		_	<	11	<u> </u>	<u>.                                    </u>
1	1,1,1-TRICHLOROETHANE	3 4 5 0 6-	ų.		<	1	<u> </u>	<u>. _</u>
	1,1,2-TRICELOROETHANE	3 4-5 L L	_	-	<	1	<u>. _</u>	.   _
	TRICHLOROETHENE	39180	1.	_	4	1		<u>.   .</u>
		3 4 4 8 8.			<	1		-
	TRICELOROFLUORCYTEANE	13 4 4 0 0.			1	<u> </u>	<del></del>	

RECORD CODE LIPICISIMIO 12 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Mayrood CO. Cook RCRA

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MONITOR POINT NUMBER  $\frac{M}{19} = \frac{W}{2} = \frac{0.5B}{22}$ DATE COLLECTED  $\frac{0.7}{22} = \frac{2.5}{M} = \frac{91}{128}$ IEPA LAB (2 of 3lank)  $\frac{0.9}{29}$ 

FACILITY NAME ALTORUTH C LAB MEASUREMENTS LEVEL STORET CONSTITUENT DESCRIPTION AND OR VALUE NUMBER REQUIRED UNIT OF MEASURE BENZIME 34030 34010 TOLUENE \_8\_1\_5\_5\_1 XYLENES <u>45627</u> c-1,2, Dichloroethene . . . . . . . . . • **g**:

CODE CODE DIVISION DI VISION DIVISION DIVISION DIVISION DIVISION DIVISION DIVISION DI VISION DIVISION DIVISION DIVISION DI VISION DIVISION DI VISION DIVISION DI VISION DI VISIONI DI VISION DI VISIONI DI VISION DI VISION DI VISION DI VISIONI DI	nvironmental on of land Pol chemical anai	LUTION	CONTROL Page	1 of <u>3</u>
REPORT DUE DATE 10 , 01 , 9 1	FEDERAL ID NUMB		<u>D 0 8 5 3 5 2</u>	
REGION Maywood CO. Cook	5 0 7 2 RCRA	MONITOR  (see Instru  DATE COL	POINT NUMBER M W 0 crions) 07 / 25 / 91	6A
IPM			In an Blanchi	128
FACILITY NAME		(see Instru		
OR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAME	PLE (X)	TIME COLLECTED 55 1	— Ж <u>53</u>
TE RECEIVED 42 M / D / Y 47	UNABLE TO COLLEC	CT SAMPLE	<del>39</del>	
MPLING PURPOSE CODE 40 40 ME CARD	MONITOR POINT SA	.MPLED 3Y	60 OTHER ISPECT?	
11-177	<del>-</del>	RED - INGR	ganics (X) = Organics (	X) <u>27</u>
SAMPLE APPEARANCE				
COLLECTOR COMMENTS TOS				
SPECIAL INSTRUCTIONS TO LAB		·		
Larry Poynter LDP ASI COLLECTED BY 143 DIVISION		RANSPORTE	AST DIVISION OR COMP	ANY
LAB SAMPLE NO LAB NAME	=LAB USE ONLY		LAB ID NO. [46 —	(ep]
DATE RECEIVED 07-26-91 AND ADDRESS				
TIME RECEIVED			08_02_91	<del></del>
SAMPLE TEMP OKAY TYNNI SAMPLE PROPERLY PRES	JERVED TY/N/ DATE	=		
		_ <del>_</del>		
			ERVISOR SIGNATURE	
TORD CODE LIPICISIMIO 1 2 TRANS CO	DE LA! (COLUMN:	S 9-29 FROD	SVOEA 3	
FIELD MEASUREMENTS	STORET	V		REPORTING LEVEL
CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	NUMBER	OR	VALUE	
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011	36 5	<u></u>	स्क स
ELEVATION OF GW SURFACE (ft. ref MSL)	71993	_   _		.   _   _
WELL DEPTH ELEVATION (ft. ref MSL)	72020 _	_   _		-   _
DEPTH TO WATER FROM MEAS. PT. (ft)	72109 _	_ _		_   _   _
		_		-   -   -
		- -		
		_   _		<u> </u>
	<u>                                    </u>	<u>                                     </u>		·

This Agency is sufficience to require the information under labour Serviced Statutes 1979. Chapter 1311. Section 1004 and 1021. Discipsive of this information is required. Factor is do so may result in a Civil small up to 525,000 for each day the factor commiss. It is not not present the first form has been appropriate Center 1218.

\*\*Unity Key princh Lines with Dutle in Cultumn IIS or Cultumn III 47.

RECORD CODE LIPIC SIMIO 1 2 TRANS CODE LAI

ATTE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Mayrood CO. Cook RCRA

MONITOR POINT NUMBER M W 0 6A

DATE COLLECTED 07 25 91

EPA LAB (2 of Blank)

FACILITY NAME REPORTING LAB MEASUREMENTS STORET CONSTITUENT DESCRIPTION AND OR YALUE NUMBER REQUIRED UNIT OF MEASURE BROMODICELOROMETHANE 3 2 L L L L BROMOFORM 3 4 4 1 3 BROMOMETEANE (Methyl Bromide) CARSON TETRACELORIDE <u> 3 2. I Q 2...</u> CHIOROBENZETE 3 4 3-G-L-CHLOROFTEAME 3 4 3 - 1 - 1 -\_\_ \_ -- --\_\_\_\_\_\_\_\_\_ 2-CELOROSIET VINYL ELES CHICROFORM 3 2 1 0 6 3.4418 ... ... • -- -- --CELOROMETEAME DIBROMOGELOROMETHANE 32105 3.4 5 3 6 1,2-DICHLORGSENZENE 345.66 1,3-DICELORGENZENE 3. 4 5. 7- I-I.4-DICELOROSENZENE DICELORODISTCROMETEANE 34668 34495 1, L-DICELORGETEANE 1,2-DICELOROFTEANE . 3 4 5 3 1\_ 1 34546 t-1,2-DICHLORCETEANE 34541 1,2-DICELOROPROPANE c-1,3-DICHLORGPROPANE 3 4 7 0 4 3 4 6 9 9 c-1,3-DICELOROPROPANE 3 4 4 2 3 WELEXIBNE CHICKIDE 3 4 5 L 6. 1,1,2,2-THIRACHLOROETHANE 134475 TETRACELOROFIENE 1,1,1-TRICHLOROETHANE 3 4 5 0 6--3 4.5 L L 1;1,2-TRICELORGETEANE TRICELOROETHENE 3 9 1 8 0 TRICELOROFLUOROMETHANE 3 4 4 8 8 VINYL CHLORIDE 3 9 1 7 5

RECORD CODE LIPICISIMIO 12 TRANS CODE A
SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 7
REGION Mayrood CO. Cook RCRA

MONITOE POINT NUMBER  $\frac{M}{19} = \frac{W}{2} = \frac{0.6A}{22}$ DATE COLLECTED  $\frac{0.7}{22} = \frac{2.5}{M} = \frac{91}{22}$ IEFA LAB (2 of 3lank)  $\frac{1.9}{29} = \frac{1.91}{22} = \frac{1.91}{22}$ 

FACILITY NAME				12	IPA LAB (z or Blank) 23	F
LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	*******	4 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CR >	VALUE	AEFORTING LEVEL  DELTE   1 the   1 the
BENZEVE	3 4 0 3 0	35	্যন	<b>4</b>	1	
TOLUENE	34010		_	<b>4</b>	1	
XZIENES	_8_1_5_5_1			4	1	
c-1,2, Dichloroethene	<u>4 5 6 2 7</u>			<u> </u>	_ 1	
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CODE CODE DIVISION	IVIRONMENTAL PR ON OF LAND POLLU THEMICAL ANALYS	TION CONTROL	Page 1 of 3
REPORT DUE DATE 10 01 c 1	FEDERAL ID NUMBER	<u>I L D O 8 5 3 5</u>	2 4 7 4
REGION Maywood CO. Cook	. RCRA DA	ONITOR POINT NUMBER M W e Instructions) 07 / 25 TE COLLECTED 25 M D	√ 6 <u>1</u> 0 6 <u>8</u>
FACILITY NAME		PA LAB (2 or Blank) e Instructions)  29	
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAMPLE	(X) TIME COLLECTED (24 HR CLOCK)	55 H M 56
DATE RECEIVED 42 M / D / Y 47	UNABLE TO COLLECT S.	(24 as Ciuca)	33 33
SAMPLING PURPOSE CODE 40 TIME CARD	MONITOR POINT SAMPL	60 OTHER GRECIFY	1
PROGRAM CODE 49 - 52 & UNIT CODE 53	AMPLE FIELD FILTERED	- ingrganics (X) at organ	AICZ (X)
SAMPLE APPEARANCE			
COLLECTOR COMMENTS TO			TU2 -
SPECIAL INSTRUCTIONS TO LAB			142
Larry Poynter LDP ASI COLLECTED BY INITIALS DIVISION	or Company trans	ASI PORTED BY DIVISION OR C	
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED SAMPLE PROPERLY PRES L COMMENTS TED	ERVED (YN) DATE CO		——————————————————————————————————————
		SUPERVISOR SIGNATURE	
ECORD CODE LIPICIS MIO 12 TRANS CO	DE A COLUMNS 9-2	9 FROM ABOVE)	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	OR VALUE	LEVEL
TEMP OF WATER SAMPLE (unfiltered)(°f)	0 0 0 1 1 3		- <del></del>
ELEVATION OF GW SURFACE (ft. ref MSL)			_
WELL DEPTH ELEVATION (ft. ref MSL)	72020		
	Z2109 _   _		_ _
		-	_
	<u>   _   -   -   -   -   -   -   </u>	<u> </u>	-   -
		<u> </u>	_
		<u> </u>	_   _
<u></u>			<u> </u>

 RECORD CODE LIPICISIMIO 12 | TRANS CODE A

 SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

 REGION Maywood CO. Cook
 RCRA

MONITOR POINT NUMBER  $\frac{M}{19}$   $\frac{W}{0}$   $\frac{0}{6B}$  DATE COLLECTED  $\frac{07}{23}$   $\frac{25}{M}$   $\frac{91}{D}$ 

FACILITY NAME

	Lab measurements  constituent description and  required unit of measure	STORET NUMBER	*******		V OR >	VALUE	REPORTING LEVEL
	BROMODICHLOROMETHANE	32101	3	5 <b>8</b> 1	4	<u> </u>	- I-9
	BROMOFORM	32.104		_	4	_ 1	_ _
-	BROMOMETHANE (Methyl Browide)	3 4 4 1 3			۷	1	
	CARBON TETRACHIORIDE	3 2 1 0 2		]	4		
ļ	CHLOROBENZERE	34-3-6-1-	<b>-</b> .	·	4	1	_   -
	CELOROETHANE	3 4 3 1 1 -		_	4	1	
	2-CELOROETE: VINYL ELEER		-		<	1	
	CZZCROFORM	3 2 1 0 6	_		<	1	_   -
	CELOROMETERNE	3.4418		_	<	1	_   _
	DIBROMOGELOROMETHANE	32105	-	_	4	1	_   _
	1,2-DICELOROSENZENE	3.4536		_	4	1	_   _
	1,3-DICETOROSENZENE	3 4 5 6 6		-	_	1	_   _
	1.4-DICHLOROBENZENE	3. 4 5- 7-1-	-	_	4		_   _
	DICELORODIFUCROMETHANE	3 4 6 6 8	-	-	1	1	_   _
	1,1-DICHLORSITHANE	3 4 4 9 6			2	1	
	1,2-DICELOROE HANE	3 4 5 3 1_	_	_	4		
	t-1,2-DICHLORCETHANE	34546			2	1	<u> </u>
	1,2-DICHLOROPROPANE	3 4 5 4 1.		-	2	1	<u>                                     </u>
	c-1,3-DICELOROPROPANE	3 4 7 0 4			<	1	
7	t-1,3-DICHLOROPROPANE	3 4 6 9 9			2	1.	_   _
1	METERLENE CELORIDE	3 4 4 2 3	_		4	1	_   _
	1,1,2,2-THIRACHLOROETHANE	3 4 5 1 6.		_	4	1	
	TETRACHLOROFTHINE	3 4 4 7 5			4	1	_ -
		3 4 5 0 6	_		<	1	
1	1:1:2-TRICHLORGETHANE	3 4.5 1 L			4	1	- -
1	TRICELOROETERE	3 9 1 8 0			2	1	_ .
	TRICHLOROFLUOROMETHANE	3 4 4 8 8			7	1	1
1	VINYL CHLORIDE	3 9 1 7 5			2	1	1.
		es with Data in Column	1	1	<u> </u>	<u></u>	<u></u>

RECORD CODE LIPICISIMIO 12 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

MONITOR POINT NUMBER M W 0 6B

DATE COLLECTED 07 / 25 / 91

EPA LAB (2 of Blank) 19

						-
LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET - NUMBER	114 - 71-		۷ مع ۷	VALUE	REPORTING LIVEL
BENZINE	34030	32	375	4	1	18 49
TOLUENE	3 4 0 L O			4	1	
XYLENES	_8_1_5_5_1			۷	1	
c-1,2, Dichloroethene	4 5 6 2 7			4	1	
						_   _
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• <b>e</b>			-	-		<u> </u>
			_			<u> </u>
		-	-			<u> </u>

	NVIRONMENTAL PRO ON OF LAND POLLUT CHEMICAL ANALYSI	TION CONTR	OL	Page I of	<u> 3</u>
REPORT DUE DATE 10 , 01 , 9 1 1 35 M D Y +1	FEDERAL ID NUMBER	IID O	8 5 3 5	2 4	7 4
REGION Maywood CO. Cook  IPM  FACILITY NAME	RCRA DAY	TE COLLECTED  A LAB (x or Blai Inscretions)	25 M D	0 9 -/ 91 -/ ¥ =3	
OR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAMPLE (	(X) TIL	E COLLECTED	55 5	— <sub>M 55</sub>
ATE RECEIVED  42 M D Y 4.  AMPLING PURPOSE CODE 43  ME CARD  REGGRAM CODE 49  49  52  ME CODE 53	UNABLE TO COLLECT SA (see Instructions) MONITOR POINT SAMPL (see Instructions) SAMPLE FIELD FILTERED	MPLE 59 ED SY 60	OTHER GPECIFY		<del>53</del>
SAMPLE APPEARANCE  GG  COLLECTOR COMMENTS  TOS				T02	
SPECIAL INSTRUCTIONS TO LAB		<del> </del>			_
	OR COMPANY TRANS	PORTED BY	ASI DIVISION OR C		•
SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PROLETAIN TEMPORALY PROPERLY PROPERL	SERVED (Y/N) DATE COM	MPLETED 08-	06-910RWARD		
		SUPERVISOR	SIGNATURE		<b>-</b> ∦
CORD CODE LIPICIS MID 1 2 1 TRANS C					
( C) G ( m) U ( A)	ODE LA! (COLUMNS 9-2)	9 FROM ABOVE	1		!
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	S FROM ABOVE	VALUE		, /-
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	OR OR	<u> </u>	Treus.'	LEVEL
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE TEMP OF WATER SAMPLE (unfiltered)(°f	STORET NUMBER ) 0 0 0 1 1 5 5 5 5	OR >	<u> </u>	7 mar. 77 m 1 m	LEVEL
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f	STORET NUMBER  ) 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	OR >	<u> </u>	7 mar. 77 m 1 m	LEVEL
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f   ELEVATION OF GW SURFACE (ft. ref MSL)  WELL DEPTH ELEVATION (ft. ref MSL)	STORET NUMBER  ) 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	OR >	<u> </u>	7 mar. 77 m 1 m	LEVEL
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f	STORET NUMBER  ) 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	OR >	<u> </u>	7 mar. 77 m 1 m	LEVEL
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f   ELEVATION OF GW SURFACE (ft. ref MSL)  WELL DEPTH ELEVATION (ft. ref MSL)	STORET NUMBER  ) 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	OR >	<u> </u>	7 mar. 77 m 1 m	LEVEL
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f   ELEVATION OF GW SURFACE (ft. ref MSL)  WELL DEPTH ELEVATION (ft. ref MSL)	STORET NUMBER  ) 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	OR >	<u> </u>	7 mar. 77 m 1 m	LEVEL
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f   ELEVATION OF GW SURFACE (ft. ref MSL)  WELL DEPTH ELEVATION (ft. ref MSL)	STORET NUMBER  ) 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	OR >	<u> </u>	7 mar. 77 m 1 m	LEVEL
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE  TEMP OF WATER SAMPLE (unfiltered)(°f   ELEVATION OF GW SURFACE (ft. ref MSL)   WELL DEPTH ELEVATION (ft. ref MSL)	STORET NUMBER  ) 0 0 0 1 1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	OR >	<u> </u>	7 mar. 77 m 1 m	LEVEL

ILLINUIS ENVIRONMENTAL PROTECTION AGENCY

RECORD CODE | L| P | C | S | M | O | 2 | TRANS CODE | A |

RECION | Maywood | Cook | RCRA

IPM

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{W}{19} = \frac{0}{25}$ DATE COLLECTED  $\frac{07}{13} = \frac{25}{M} = \frac{91}{25}$ 

IEPA LAR (z or Blank) 29

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND	STORET			V OR	VALUE	ZZZO!	
REQUIRED UNIT OF MEASURE	NUMBER	* ;		>		Harry E.	Inn.myr.
BROMODICELOROMETEANE	3 2 L Q 1	্ৰ	াম	4	<u>25</u>		<u></u>
BROMOFORM	32.104			4	25	_	_
BROMOMETEANE (Methyl Bromide)	3 4 4 1 3.			4	25	_	
CARBON TETRACELORIDE	3 2 1 0 2		_	4	25		
CHLOROBENZENE	3 4-3-0-1-	<b>-</b> .		4	25		
EL CRUCTHANE	3 4. 3. 1. 1			4	25		
S-CHICKORIAL ADMAR HIRES		-	-	4	25	<u> </u>	
CELOROFORM	32106			4	25		
CET OROMETHANE	3.4418			4	25		_
DIBROMOGELOROMETHANE	3 2 1 0 5		_	<	25	<u> </u>	
1,2-DICHLORGENZENE	3.4 5 3 6.		_	2		<u>  _ </u>	
1,3-DICELOROSENZENE	34566		_	1			_
1.4-DICELOROSENZENE	3. 4 5. 7-1-	-	_	4	25	<u> </u>	
DICELORODIFFOROMETEANE	34668	-	-	4	25	<u> </u>	
1,1-DICELORGETEANE	34495			7	25	<u> </u>	
1,2-DIGELOROETEANE	3 4 5 3 1_	_	_	1	25	<u> </u>	
t-1,2-DECHLOROFTHANE	34546			1	25	.   _	<u>  -  </u>
1,2~DICHLOROPROPANE	3 4 5 4 1		-	<	25	<u> </u>	1.
c-1,3-DICELOROPROPANE	3 4 7 0 4			4	25		_
c-1,3-DICELOROPROPANE	3 4 6 9 9			1	25		-
METHYLENE CHIORIDE	3 4 4 2 3	-		1	25		
1,1,2,2-TETRACE OROETHANE	3 4 5 L 6.		_	1	25	_	
TETRACELOROETEENE	3 4 4 7 5			4	25		_
1,1,1-TRICHLOROETHANE	24506-	1_		2	25.		
1;1,1-TRICALOROETHANE	3 4.5 L L			4	25	.   _	
TRICGLOROETHENE	3 9 1 8 0	<u> </u>		1.	620	.   _	
	3 4 4 8 8		-	1	25	1	_
VINYL CHLORIDE	3 9 1 7 5	<del> </del>	<u> </u>	1	25	1_	T.
		<u> </u>	Codes	! -			<u></u>

RECORD CODE LIPICISIMIO 2 TRANS CODE A

ATE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Mayrood CO. Cook RCRA

FACILITY NAME

				29	
LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER		OR >	AYTOE	ASSOCIATING LEVEL
BENNEME	34030			25	
TOLUENE	34.010	3.8		25	<u>                                     </u>
XYLENES	8_1_5_1		4	25	-   -
c-1,2, Dichloroethene	4 5 6 2 7		4	25	
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		-   -			
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	NVIRONMENT ON OF LAND I CHEMICAL A	POLLUT	TION CON	ragency Trol I	Page I of 3
REPORT DUE DATE 10 , 01 , G 1	FEDERAL ID NO	UMBER	I L D	0 8 5 3 5	2 4 7 4
E INVENTORY NUMBER 0 3 1 0 6 3  REGION Maywood CO. Cook  IPM  FACILITY NAME	5 0 7 2 RCRA	DA'	NITOR POINT Instructions) IT COLLECT A LAB (z or I Instructions)	ED ZM M / LD	1 2 , 91 Y 25
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND				
DATE RECEIVED  42 M / D / Y + .  AMPLING PURPOSE CODE 40  Instructions!  TME CARD	UNABLE TO CO (see Instructions: MONITOR POIN (see Instructions:	LLECT SA T SAMPLI	MPLE 59 ED 3Y 80	OTEER (SPECIFY)	
SAMPLE APPEARANCE					
COLLECTOR COMMENTS					102  142
SPECIAL INSTRUCTIONS TO LAB					
12111Ain	OR COMPANY	TRANS	PORTED BY	ASI DIVISION OR C	
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED SAMPLE PROPERLY PRE		DATE COM	APLETED O		- -
			SUPERVIS	OR SIGNATURE	
CORD CODE   LIPICIS   MIG   2 1 TRANSCO	ODE A (COL	UMNS 9-29	OEA MORT	VZI	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER		V OR A	VALUE	REPORTING LEVEL OBSTS Art
TEMP OF WATER SAMPLE (unfiltered)(of		.55 35	57 JF -	•	- <del> </del>
ELEVATION OF GW SURFACE (ft. ref MSL	71993		<u> </u>		
WELL DEPTH ELEVATION (ft. ref MSL)	72020		<u> </u>		_   _
DEPTH TO WATER FROM MEAS. PT. (ft)	Z2109	_   _	-		_
			<u>                                     </u>		_   _
	<u> </u>		-		_
·	<u>    -                       </u>		<del> - </del>	<del></del>	

RECORD CODE | L| P| C | S | M | O | 2 | TRANS CODE | A |

INTE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 18

REGION Mayrood Co. Cook RCRA

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{1}{25} = \frac{2}{25}$ DATE COLLECTED  $\frac{07}{25} = \frac{25}{91} = \frac{91}{25}$ 

IEPA LAB (z or Blank)

							-
LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	******		OR A	VALUE	REPORTING LEVEL  INCLES  THE  THE  THE  THE  THE  THE  THE  T	-
BROMODICELOROMETEANE	3 2 1 0 1	33	SE	4	25	- l	
BROMOFORM	32104	_	_	<u></u>	25		
BROMOMETFANE (Methyl Bromide)	3 4 4 <u>1 3</u> .			4	25		
CARBON TETRACELORIDE	3 2 1 0 2			2	25		1
CELOROBENZENE	343-	<b>-</b> .	_	4	25	_	-
CELOROETHANE	3 4. 3. 1. 1			۷	25	_ _	_
2-Caloroetar Vinyl Elear		·		2			_
CHLOROFORM	32106	-		4	25	_ .	
CHLOROMETHANE	3.4418			2	25	_   _	-
DIBROMOGELOROMITEANE	32105	-		<	25	_	
1,2-DICHLOROBINZENE	3.4 5 3 6.	_	-	<	25		
1,3-DICHLORGBENZEME	34566	<b></b>	_	<	25		
1.4-DICHLOROSEMZENE	g. 4 5-7-1-	-		€	25		-
DICELORODIFFOROMETEANE	3.4668	-	,	<	25		.
1,1-DICELORGETEANE	34496			<	25	_   _	_
1,2-DICELOROETEANE	3 4 5 3 1_		_	<	25		
t-1,2-DICHLOROTTANE	3.45.46-			4	25	_   _	_
1,2-DICHLOROPROPANE	3 4 5 4 1	-		4	25	<u>.</u> .	_
c-1,3-DICHLORGPROPANE	3 4 7 0 4			4	25.		
t-1,3-DICHLOROPROPANE	3 4 6 9 9	]		<	25	-   -	_
METHYLENE CHICRIDE	3 4 4 2 3	-		<	25		
1,1,2,2-TETRACTIOROET=ANE	3 4 5 L 6.		-	1	25		
TETRACELOROETHINE	34475			<	25	<u>                                     </u>	_
1.1.1-TRICHLOROETHANE	3 4 5 0 6	_		<	25	<u>                                     </u>	_
1,1,2-TRICELORCETHANE	3 4.5 L L		-	4	25		_
TRECHLOROETHERE	39180	-	_		1500		
TRICHLOROFLUOROMETHANE	3 4 4 8 8		Ī	2	25		
VINYL CHLORIDE	3 9 1 7 5			<u>\</u>	25	<u>                                     </u>	
	·			****			

RECORD CODE LIPICISIMIO 12 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 7

REGION Mayrood CO. Cook RCRA

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{W}{19} = \frac{1}{22}$ DATE COLLECTED  $\frac{07}{22} = \frac{25}{M} = \frac{91}{23}$ 

FACILITY NAME

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER	*******		OR A	VALUE	EEFORTCHG LEVEL
BENZENE	3 4 0 3 0,	33-	্য়ে	4		18 19
TOLUENE	3 4 0 1 0	_		<u> </u>	25	
XYLENES	_8_1_5_5_1			4	25	
c-1,2, Dichloroethene	4 5 6 2 7.			۷	25 	
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	<u> </u>		<u> </u>			
A \$ .		<del>                                     </del>	-	-		
	<u> </u>	<del>  -</del>	-	<u>                                     </u>		
	] - · <u>-</u> -	-	<u>  - </u>	-		-   -
		-	<u>  -                                   </u>			
Onis Keeptuch Lane	with Date in Culynn	11. ne	Colun	105 58	47	·

CODE CODE DIVISIO	ON OF LAND I CHEMICAL A	POLI	UT	ON		1 of <u>3</u>
REPORT DUE DATE 10 , 01 , g 1	FEDERAL ID NO	IMBE	Ŕ.	I L	<u>D 0 8 5 3 5 2</u>	4 7 4
REGION Maywood CO. Cook  IPM  FACILITY NAME	5 0 7 2 18 RCRA		DAT	100 3 EA1	POINT NUMBER M W 1 4  ations) 07 , 25 , 91  LECTED 23 M D / Y  (r or Blank) 29	A 23
FOR IEPA USE ONLY COMPLAINT NO.  OATE RECEIVED 42 M D Y 41  AMPLING PURPOSE CODE 48  IME CARD 48  ROGRAM CODE 49 52	BACKGROUND  UNABLE TO CO (see Instructions)  MONITOR POIN (see Instructions)  SAMPLE FIELD FI	LLEC T SAN	T SAN	eple d by	59	
SAMPLE APPEARANCE  COLLECTOR COMMENTS  TOS  SPECIAL INSTRUCTIONS TO LAS					102	
Larry Poynter LDP ASI COLLECTED BY INITIALS DIVISION	or company =Lab use only=	73.	\NSP	ORTE	ASI DIVISION OR COMPA	
LAB SAMPLE NO. LAB NAME  DATE RECEIVED 07-26-91 AND ADDRESS  TIME RECEIVED SAMPLE PROPERLY PRES  LA DMMENTS TED	SERVED TYNN	DATE	COM			1+9
CORD CODE LIPICIS I MIG   2 ! TRANS CO	DE LAL (COL	UMNS	9-29		ervisor signature ( above:	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	*****		<pre>OR &gt;</pre>	VALUE	REPORTING LEVEL
TEMP OF WATER SAMPLE (unfiltered)(°f)		35	35	37	<del></del>	<u> </u>
ELEVATION OF GW SURFACE (ft. ref MSL)	71993.	_	_	_		_ _
WELL DEPTH ELEVATION (ft. ref MSL)	72020			_		_ _
DEPTH TO WATER FROM MEAS. PT. (ft)	72109			_		1-1-1
			_	_		_   _
				_		_
			_	_		-
·	<u></u>	_		_]		- -
		-		_		<u>                                     </u>
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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

RECORD CODE | 1 | 2 | C | 3 | M | 0 | 2 | TRANS CODE | 4 |

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 |

REGION Maybood Co. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19}$   $\frac{W}{1}$   $\frac{1}{2}$   $\frac{4A}{2}$  DATE COLLECTED  $\frac{07}{22}$   $\frac{25}{M}$   $\frac{91}{23}$ 

EPA LAB (z or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND	STORET NUMBER		-	V OR	VALUE	REPOR	
REQUIRED UNIT OF MEASURE	Monoga	3 3	:	>		.770	INVINA
BROMODICHLOROMETHANE	32101	<u> </u>	্যস	4	<u> </u>	-	19
BROMOFORM	32104			4	25	_	_
BROMOMETHANE (Methyl Brow	ride) 3 4 4 1 3.			4	25 		
CARBON TETRACELORIDE	3 2 1 0 2			4	25		
CELOROBENZEIE	3 4 3 0 1			4		_	_
CHI ORGETHANZ	3 4 3 1-1-		_	4	25		
2-CELOROFIEL VINYL FIRER		-	_	4	25		
CELOROFORM	32106			۷.	25	_	
CELOROMETEANE	3.4418		_	4	25	-	_
DIBROMOGELOROMITHANE	3 2 1 0 5			4	25		_
1,2-Dicelorgenzene	3.4536		-	4	25	_	_
1,3-DICELORGSENZENE	3 4 5 6 6		_	7	25 •	_	_
1.4-DICHLOROBENZENE	3. 4. 5- 7-1-	_		_	25 •	_	
DICELORODIFECROMETHANE	3.4668			2	25	_	_
1,1-DICHIORCETTANE	34496			_	25	<u> </u>	
1,2-DICHLOROFIEANE	3 4 5 3 1			7	25		
t-1,2-DicelorceTeane	3 4 5 4 6				25		<u>                                     </u>
1,2-DICELOROPROPANE	3 4 5 4 1.			~	25	1.	
c-1,3-DICELOROPROPANE	34704		<u>-</u> -	1	25	<u> </u>	
		• 		<u></u>	25		
t-1,3-DICELOROFROPANE	34699		<u> </u>		25		
METERLENE CELORIDE	3 4 4 2 3	-	) ·		25	<del>  -</del>	<del>                                     </del>
1,1,2,2-TETRACELOROETEANE		-	<u>-</u>	1	160	<u>  -                                   </u>	
TETRACHLOROETHENE	34475	<u> </u>	<u></u>	<u>  -                                   </u>		<del>  -</del>	<u>! -</u>
1,1,1-TRICHLOROETHANE	3 4- 5 0 6			1	25	<del>  -</del>	<u> </u>
1;1,2-TRICHLORGETHANE	3 4.5 L L	-	<u>  -</u> _	1 4	15.000	<u> </u>	<u> </u>
TRICELOROETHENE	3 9 1 8 0			<u> </u> .	15,000	+-	<del>  -</del>
TRICELOROFLUORCYETEANE	3 4 4 8 8.	·		1	25	<u> </u>	<u> </u>
VINYL CHLORIDE	3 9 1 7 5			<u>z</u>	25	<u> </u>	1.

RECORD CODE LIPICIS MIO 12 TRANS CODE A HTE INVENTORY NUMBER Q 3 I O 6 3 5 O 7 2 REGION Mayrood co. Cook RCRA

MONITOR POINT NUMBER  $\frac{M}{19}$   $\frac{W}{25}$   $\frac{1}{25}$   $\frac{4A}{25}$  DATE COLLECTED  $\frac{07}{25}$   $\frac{25}{M}$   $\frac{91}{728}$ 

FACILITY NAME

EPA LAB (z or Blank) 79

	Lab Measurements Constituent description and Required Unit of Measure	STORET .		***	OR.	VALUE		RTING YEL
	BENZINE	26030	i	:	2	25		
<u> </u>		3 4 0 3 0	7.5	<u>185  </u>	\$		1=	<u>। हि</u>
	TOLUENE	34.010	<u> </u>	[ <u>—</u>	<u>≤</u>	25	┼-	<del> </del>
	XYLENES	_8_1_5_5_1_			4			<u></u>
	c-1,2, Dichloroethene	<u>4 5 6 2 7</u>				64		
-		l	<b></b> .	_			_	<u> </u>
			]					
-			}				<u> </u>	
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1		as with Data in Column	<u> </u>		1.		<u>.                                    </u>	<u> </u>

	ENVIRONMENTAL PROTECTION AGENCY SION OF LAND POLLUTION CONTROL CHEMICAL ANALYSIS FORM Page 1 of
REPORT DUE DATE 10 , 01 , 9 1	FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4
REGION Maywood CO. Cook  IPM	RCRA DATE COLLECTED 25 M / 25 Y 25
FACILITY NAME	IEPA LAB (g or Blank) (see Instructions)
OR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAMPLE (X) TIME COLLECTED 55 H M 56
ATE RECEIVED  42 M - D - Y 47 .  MPLING PURPOSE CODE  10 Instructions;  ME CARD	UNABLE TO COLLECT SAMPLE (see Instructions)  MONITOR POINT SAMPLED BY (see Instructions)  OTHER (SPECIFY)
COGRAM CODE 49 - 51 & UNIT CODE 53	SAMPLE FIELD FILTERED - INORGANICS (X) TO ORGANICS (X)
SAMPLE APPEARANCE	
COLLECTOR COMMENTS	
SPECIAL INSTRUCTIONS TO LAB	17-
Larry Poynter LDP AS COLLECTED BY INITIALS DIVISION	ASI N OR COMPANY TRANSPORTED BY DIVISION OR COMPANY  LAB USE ONLY
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP OKAY TYNN SAMPLE PROPERLY PR L: 'OMMENTS TED	RESERVED (Y/N) DATE COMPLETED 08-06-91 FORWARD
	SUPERVISOR SIGNATURE
CORD CODE LIPICISIM: 0 12 TRANS	CODE A (COLUMNS 9-29 FROM ABOVE)
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET OR VALUE  NUMBER STORET  OR VALUE  OR STORET
TEMP OF WATER SAMPLE (unfiltered)(°	f) 0 0 0 1 1
ELEVATION OF GW SURFACE (ft. ref M	SL   7 1 9 9 3   _   _   _   _   _
WELL DEPTH ELEVATION (ft. ref MSL	) 72020
DEPTH TO WATER FROM MEAS. PT. (ft	)   7 2 1 0 9   -   -   -   -   -   -   -
	<u> </u>
	<u> </u>

RECORD CODE LIPICISIMIO 121 TRANS CODE A SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 REGION Maywood CO. Cook RCRA

MONITOR POINT NUMBER M W 1 4C

DATE COLLECTED 07 25 91

EPA LAB G or Blank) 29

FACILITY NAME

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	******	********	V OR >	AYTRE	7700	
BROMODICELOROMETEANE	3 2 L Q 1	35	ট <b>ন</b>	4	25	_	7.5
BROMOFORM	32104		_	4	25		
BROMOMETHANE (Methyl Bromide)	3 4 4 1 3.			4	25		
CARBON TETRACETORIDE	3 2 1 0 2		<u></u>	2	25	_	
CELOROBENZERE	3 4 3 0 1			4	25		
CELOROE EANE	3 4 3 1 1			۷	25		_
2-GHEOROFIET VINYL FIEER	<u> </u>	-		<	25		
CELOROFORM	32106	-		4	25	_	
CELOROMETHANE	3.4418		-	<	25	_	
DIBROMOGELORCHETEANE	32105			4	25	_	_
1,2-DICHLORGSENZINE	3.4536	-	_	<	25	_	
1,3-Dicelorosenzeme	34566	4	_	<	25	_	
1.4-DICHTOROBENZENE	å. 4 5-7- <u>1</u> -	-		<	25 _ •	_ [	
DICELORODIEUCROMETHANE	3.4668	-		<	25	_	
I, I-DICHLOROSIFANE	34496			<	25	_	
1,2-DICHLOROSTEANE	3 4 5 3 1_	_		<	25	<u> </u>	
t-1,2-DICHLORCETHANE	34546			<	25		
1,2-DICELOROFROPANE	3 4 5 4 1.		-	<	25	-	
c-1,3-DICHLORCPROPANE	34704			4	25		-
t-1,3-DICELORCPROPANE	3 4 6 9 9			<	25	<u> </u>	
METETLENE CELORIDE	3 4 4 2 3	-		1	25	<u> </u>	
1,1,2,2-TETRACE OROETHANE	3 4 5 L 6.	-		1	25		
TETRACALOROETENE	3 4 4 7 5		_	<	25	<u> </u>	
1,1,1-TRICHLOROETHANE	3 4 5 0 6	-	. <b>.</b>	1	25	<u> </u>	<u> </u>
1,1,2-TRICELORCETFANE	3 4.5 1 L		-	4	25		<u> </u>
TRICELOROETHENE	39180				620	_	<u> </u> .
TRICSLOROFLUORCMETHANE	3 4 4 8 8			<	25		
VINYL CHLORIDE	3 9 1 7 5			2	25		

RECORD CODE | L| P | C | S | M | O | 2 | TRANS CODE | A |

SITE INVENTORY NUMBER 0 3 1 0 5 3 5 0 7 2 18

REGION Mayrood CO. Cook RCRA

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{1}{25} = \frac{4C}{25}$ DATE COLLECTED  $\frac{07}{22} = \frac{25}{M} = \frac{91}{23}$ EFA LAB (2 of Slank)

FACILITY NAME	EPA LAB (z or Blank)					
LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	*******	***	V OR >	VALUE	REPORTING LIVE
BENZENE	3 4 0 3 0	2	্যম	4	<u> 25 </u>	ज ज
TOLUENE	34.010		_	4	25	
XYLENES	_8_1_5_5_1			4	<u>25</u>	_   _
c-1,2, Dichloroethene	<u>4 5 6 2 7.</u>			4	25	_   _
			_			_   _
<u> </u>				_	<u></u>	_   _
		_	_	-		
		-				
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						<u>                                     </u>

LIPICISIMIOILI LAI DIVIS	SION OF LAND POLLUTION CONTROL Page I of
	CHEMICAL ANALYSIS FORM
REPORT DUE DATE 10 , 01 , 9 1	FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4
36 M D Y 41 s	
STE INVENTORY NUMBER $\frac{0}{9}$ $\frac{3}{3}$ $\frac{1}{1}$ $\frac{0}{0}$ $\frac{6}{3}$	5 0 7 2 MONITOR POINT NUMBER M W 1 4D
REGION Maywood co. Cook	RCRA DATE COLLECTED 07 25 91 P 23 M
IPM	NOW DATE COMMENTED IN 1972
FACILITY NAME	IEPA LAB (z or Blank) (see Instructions)
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAMPLE (X) TIME COLLECTED 55 H M 55
ATE RECEIVED	UNABLE TO COLLECT SAMPLE (res Instructions) 59
AMPLING PURPOSE CODE	Act desired.
) Instructional **	MONITOR POINT SAMPLED BY  60 OTHER (SPECIFY)
IME CARD ROGRAM CODE & UNIT CODE	(Bee tuse genous,
49 - 50 ENT. CODE 53	Sample field filtered $\cdot$ inorganics (x) $\frac{1}{57}$ organics (x) $\frac{1}{52}$
SAMPLE APPEARANCE	
	102
COLLECTOR COMMENTS	
SPECIAL INSTRUCTIONS TO LAB	
Larry Pountar LDP AS	Т
tarry roylicer	AUI
COLLECTED BY INITIALS DIVISION	n or company transported by division or company —Lab use only————————————————————————————————————
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PR. LAT OMMENTS TED	ESERVED OATE COMPLETED 08-06-910RWARD
	SUPERVISOR SIGNATURE
CORD CODE LIPICISIMIO   2   TRANS	CODE À A COLUMNS 9-29 FROM ABOVE:
	المستحد في المنظم المنظ
FIELD MEASUREMENTS	STORET - REPORTING LEVEL
CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	NUMBER COR VALUE
	[ · :   :   >
TEMP OF WATER SAMPLE (unfiltered)("f	f)   0 0 1 1   5   5   5   5   5   5   5   5   5
ELEVATION OF GW SURFACE (ft. ref MS	エリノ <u> </u>
WELL DEPTH ELEVATION (ft. ref MSL)	72020
DEPTH TO WATER FROM MEAS. PT. (ft)	Z 2 L Q 9
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LILLINUID EN VIRONMENTAL PROTECTION AGENCY

RECORD CODE LIPICISIMIO 12 | TRANSCODE A

THE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Mayrood Co. Cook RCRA

MONITOR POINT NUMBER M W 1 4D

DATE COLLECTED 07 / 25 / 91

EPA LAB (x or Blank) 29

IPM	
FACILITY NAME	

	FROILE CHANG						
	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	*. 7 * * * * *	*****	V OR A	VALUE	EPORTING LEVEL
	BROMODICELCROMETHANE	32104	<del>'</del>	38	4	7 .	
	BROMOFORM	22.104	_	_	4	1	
	BROMOMETHANE (Methyl Browide)	3 4 4 1 3		_	<	1	_   _
	CARBON TETRACELORIDE	3 2 1 0 2			<u> </u>		_ [ _
	CELOROBENZENE	3 4 3 6 1		_	4		_   _
	CHIOROSTHANS	3 4 3 1 1 . 1		_	4	1	
1	2-CELOROFIEM FINAL FIELS				4	1	_   _
<del></del>	CHICROFORM	32106			<	1	_   -
<u> </u>	CELOROMETEANE	3.4418			4	1	_   _
	DIBROMOCELOROMETEANE	3 2 1 0 5		_	4	1	_   _
	1,2-DICHLORGSENZENE	3.4 5 3 6	1.	_	<	1	_   _
<del></del>	1,3-DICELOROSENZENE	3 4 5 6 6	<u> </u>	   _	4	1	_
$\dot{\uparrow}$	**************************************	3. 4 5. 7-1-	<u> </u>		4	1	_ [ _
<del>-</del> /	I.4-DICELOROSENZENE DICELORODIFUOROMETHANE	3 4 6 6 8			4	1	
<del></del>	——————————————————————————————————————	34495			/	1	
$\dashv$	1,1-DICELORGETEANE 1,2-DICELORGETEANE	3 4 5 3 1_		1	1	1	
-			-	<u>  —</u> 	2	1	
+	t-1,2-DICHLORGETHANE 1,2-DICHLORGPROPANE	3 4 5 4 6 3 4 5 4 1			\ <u></u>	1	
<u> </u>			<u>                                     </u>	<u> </u>	4	1	
.	c-1,3-DICELOROPROPANE	3 4 7 0 4	1 -		<u>-</u>	1	-
<del> </del>	t-1,3-DICELOROPROPANE	3 4 6 9 9	<u> </u>	<u> </u>		1	-  -
<u> </u>	WELEATENE CETOREDE	3 4 4 2 3-	1-	<u>                                     </u>	14	1	<del>-   -</del>
<del> </del>	1,1,2,2-TETRACE OROETSANE	3 4 5 1 6.	<u>  -</u> 	<u>  -                                   </u>	<u>                                     </u>	1	<u>-  </u>
1 .	TETRACHLOROETHINE	34475	1	! -	14	1	
<u> </u>	1,1,1-TRICHLOROFTHANE	3 4 5 0 6	-		<u>                                     </u>		
1	1,1,2-TRICHLOROETHANE	3 4.5 1 1	} -	-	<	1	<u> </u>
	TRICELOROETENE	39180	-	-	<u> </u>	54	<u>-  ·</u>
<del> </del> -	TRICELORO FLUOROMETEANE	3 4 4 8 8	1	ļ. <u>.</u>	1	1 - 1	-
	VINYL CHLORIDE	3 9 1 7 5	<u>] .</u>		6	1	<u> </u>

RECORD CODE LIPICISIMIO 121 TRANS CODE A SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 REGION Maywood co. Cook RCRA

Monitor point number  $\frac{M}{19} = \frac{W}{27} = \frac{4D}{27}$ Date collected  $\frac{07}{27} \times \frac{25}{M} = \frac{91}{23}$ IEPA LAB (2 or Slank)

FACILITY NAME				-	TA LAD & OF SIRBED	
LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER	-,9,04	********	<pre>CR &gt;</pre>	VALUE .	EPSL
BENZEME	3 4 0 3 0	35	্যন	4	1	12 19
TOLUENE	34.010			<	_ 1	
XYLENES	_8_1_5_5_1			4		_   _
c-1,2, Dichloroethene	<u>4 5 6 2 7.</u>			4		_
			_			_
			_			_
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	NVIRONMENT ON OF LAND F CHEMICAL AN	OLLUTI	ION CONT	AGENCY ROL I	Page 1 of	3
REPORT DUE DATE 10 / 01 / 9 1 1 36 M D Y 41	FEDERAL ID NU	MBER .	<u> </u>	0 8 5 3 5	2 4	7 4
FE INVENTORY NUMBER 0 3 1 0 6 3  REGION Maywood co Cook  IPM  FACILITY NAME	5 0 7 2 18 RCRA	DAT	(ITOR POINT Instructions) E COLLECTE LLAS (± or BI Instructions)	223 24 17	1 6A /91 /	
OR IEPA USE ONLY COMPLAINT NO.	BACKGROUND S	iample (x	r <u> </u>	ME COLLECTED	55 H	M 58
ATE RECEIVED 42 M / D / Y 47  AMPLING PURPOSE CODE 46  > Instructions	UNABLE TO COL (see Instructions) MONITOR POINT (see Instructions) SAMPLE FIELD FIL	r sample:	APLE 59 D 39 60	GTEER GPECKY		33
SAMPLE APPEARANCE		. <u> </u>			<del></del>	
COLLECTOR COMMENTS					ाठा — । स्ट	
SPECIAL INSTRUCTIONS TO LAB	<u>.                                      </u>					_
تحيلهما ذالايا	OR COMPANY =LAB USE ONLY=	Transp	ORTED BY	ASI DIVISION OR C		<del>-</del>
SAMPLE TEMP OKAY TYNN SAMPLE PROPERLY PRE	SERVED (YZN) D	ATE COM	Prated 08	-02-9 LORWARD -	99	_
			SUPERVISO	R SIGNATURE		
CORD CODE   LIPICIS   MIO   2   TRANS CO	DE A COLU	MNS 9-29	FROM ABOVE	Ē.		
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER		V OR A	VALUE	. [	PORTING PVEL
TEMP OF WATER SAMPLE (unfiltered)("f)	<u>Q 0 0 1 1</u>	नर दा	<del>-</del>	•	- 57 3	13
ELEVATION OF GW SURFACE (ft. ref MSL	71993	_   _	_		<u> </u>	
WELL DEPTH ELEVATION (ft. ref MSL)	72020	_   _				
DEPTH TO WATER FROM MEAS. PT. (ft)	12109	_   _	_			.   _
						.   _
					<u>-   -</u>	
		_   -				
		_ _				· <u>  -</u>
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	1	-1-1	_	•	<b>— – † –</b>	·   •

LLLINUIS ENVIRONMENTAL PROTECTION AGENCY

RECORD CODE | L | P | C | S | M | O | 2 | TRANS CODE | A |

BITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maybood CO. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER M W 1 6A

DATE COLLECTED 07 , 25 , 91

EPA LAB (x or Blank)

Page Z of 3

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	1.94	, , ,	OR	1	VALUE	<u></u>		ನಗು ಕಲ್ಕ
		<del>-</del>		<u> </u>				701	1
BROMODICELOROMETHANE	132101	7 7	r   58	-   4	1 1		<del></del>		19
BROMOFORM	32104	.   _			1			_	_
BROMOMETHANE (Methyl Bromide)	34413	.   _	<u>.   _</u>		_ 1 _			_	_
CARBON TETRACE-ORIDE	32102	<u>-</u> .		4	_ 1_	+		_	
CELOROBENZEJE	3 4-3-0-1	<u>.  </u>	<u> </u>	14	1_			_	
CHLOROETHANE	3 4 3 1 1	-	<u> </u>	4	1 _				
2-CELOROFIET TINYL ELER		.   -	-	1	1.			_	
CELCROFORM	32106		1.	4	. 1.				
CELOROMETEANE	3.4418		_	1	1_	**	_		_
DIBROMOGELOROMETEANE	32105	_	_	4	1_		<u> </u>		_
1,2-DICELOROSENZENE	3.4536	i.	<u> </u>		1				_
1,3-DICELORCSENZENE	34566		-	1				<del></del>	<del>-</del>
1.4-DICELOROSENZENE	3. 4 5-7-1-		-	4	1		<u> !</u>	<u>-!</u>	<del> :</del>
DICELORODIFUCROMETHANE	3 4 6 6 8	-	-	<u>ا</u>	1			<u> </u>	
1,1-DICELORGETTANE	1	1 -	<u>! -                                   </u>		1	· · · · · · · · · · · · · · · · · · ·		<u> </u>	_
1,2-DICHLOROETANE	3 4 5 3 I		<del></del>		<del></del>			-	_
t-1,2-DICELORCETHANE		<u>                                     </u>	<u> </u>	<u> </u>	<u> <sup>1</sup>-</u>	<del></del>	<u>  </u>		_
1,2-DICELOROPEOPANE	3 4 5 4 6	 					<u> [</u>	_	_
	3 4 5 4 1	.	<u> </u> -	<	<u> </u>			-	_
c-1,3-DICHLOROPROPANE	3 4 7 0 4	-		4	1		·	<u>  </u>	
c-1,3-DICHLOROPROPANE	3 4 6 9 9	_		<u>≺</u>	1		-	_ /	
METERIENE CELORIDE	3 4 4 2 3-	-		<	1	·		_	
1,1,2,2-TETRACELOROETHANE	3 4 5 L 6.	<u>.</u>	-	<	1			<b>-</b>	]
TETRACELOROFIENE	34475		_	<'	1_	·		_	
7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	3 4 5 0 6	_ ]		4	1			_ ] .	_]
1,1,2-TRICHLOROETHANE	3 4.5 1 L	_	_	<	1	· ·			
TRICELOROETHENE	39180		_	<u> </u>	1				
TO I CHI OR OH HOLD	3 4 4 8 8		-	2		•		<del>-</del> †	-
VINCIA COMPANIA	3 9 1 7 5								
Drits Korepanch Lanes		15 /		<u> </u>	·1			·   -	

RECORD CODE LL PICISIMIO 121 TRANS CODE A

SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CD. Cook RCRA

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{W}{19} = \frac{1}{20} = \frac{6A}{20}$ DATE COLLECTED  $\frac{07}{22} = \frac{25}{M} = \frac{91}{728}$ IEPA LAB (2 or Blank)  $\frac{29}{20}$ 

FACILITY NAME				29	
LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER	9.44.	V OR >	VALUE	AEPORTING LEVEL
BENZEME	3 4 0 3 0	22	<u> </u>	1	1 17
TOLUENE	34.0.1.0		_ <	1	
XYLENES	_8_1_5_5_1	]	_   <	<u> </u>	
c-1,2, Dichloroethene	<u>4 5 6 2 7.</u>		_   <	1	
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		-	<u> </u>		- -
	<u> </u>		<u>- -</u>		_   -
	<u> </u>	-	-		
1	<u>-</u> _		<u>.</u> ,].		

	ION OF LAND POL CHEMICAL ANAI	LUTION	CONTROL	Page I of 3
REPORT DUE DATE 10 , 01 , 9 1	FEDERAL ID NUMB	ER <u>I</u> .	L D 0 8 5 3	5 2 4 7 4
SITE INVENTORY NUMBER 0 3 1 0 6 3  ALGION Mayrood CO. Cook  IPM  FACILITY NAME	5 0 7 2 RCRA	DATE CO	DLECTED $\frac{0}{23}$ M $\frac{25}{D}$	- <del>- 7</del>
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAM	PLE (X)	TIME COLLECTED	55 H 36
AMPLING PURPOSE CODE  Instructions  ME CARD  ROGRAM CODE  49  49  51	UNABLE TO COLLE (see Instructions)  MONITOR POINT SA (see Instructions)  SAMPLE FIELD FILTE	MPLED 3"	24 AR CLOCK) 5 59	_
SAMPLE APPEARANCE			· · · · · · · · · · · · · · · · · · ·	
COLLECTOR COMMENTS				- 102  - 142
SPECIAL INSTRUCTIONS TO LAB				
Larry Poynter LDP ASS COLLECTED BY THE INITIAL DIVISION		ANSPORT	AS PO HOISIVIQ YE CE	
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED		E COMPLE	TED 08-02-91 FORWARD	
		SU	PERVISOR SIGNATURE	
CORD CODE   L! P   C   S   M   O   2 ! TRANS	COLUMN	S 9-29 FRO	STORA MC	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER			REPORTING LEVEL  IMPORT OF THE CONTROL OF THE CONTR
TEMP OF WATER SAMPLE (unfiltered)("f	7) 0 0 0 1 1	38 35		<del> </del>
ELEVATION OF GW SURFACE (ft. ref MS	i			
WELL DEPTH ELEVATION (ft. ref MSL)	72020 _			_
DEPTH TO WATER FROM MEAS. PT. (ft)	72109 _	_ _		_   _
		_ _		
	. 1	1 1	1	1 1
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RECORD CODE LIPICISIMIO 1 2 1 TRANS CODE LA SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2
REGION Maybood CO. Cook RCRA

MONITOR POINT NUMBER M W 1 7A

DATE COLLECTED 07 / 25 / 91

EPA LAB (x or Blank) 75

Page  $\frac{2}{3}$  of  $\frac{3}{3}$ 

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	7 . 7 . 1		OR		VALUE	commo anema ayanama a	REPO!	EL.
BROMODICELOROMETEANE	32101	┪		>	1	•		200	1
BROMOFORM	32104		<u>5   58</u>	-   4-	1			3.0	1.9
BROMOMETHANE (Methyl Bromide)	34453	<u> </u>			1				_
CARBON TETRACELORIDE	3 2 1 0 2			·   ~	1		<u>  </u>	[	
CELOROBENZENE	3 4-3-C-1			ム	1		· — — - !	<u> </u>	_
CELCROETHANE	3 4 3 1 1			1	1		<u> </u>	<u> </u>	
2-CHLOROBIET VINYL BIRER					1		· — — —	<u>-!</u>	<u>-  </u>
CELCROFORM	32106	-		<u> </u>	1		<u> </u>	-	
CHLOROMETEANE	3.4418		<del>                                     </del>		1	<u> </u>	1	_	-
DIBROMOGELOROMETEANE	3 2 1 0 5		<del>-</del> -	1	1		:	<u>-  </u>	_ ;
1,2-DICELORGENZENE	3 4 5 3 6		<del> -</del>	1	1 ts	<del></del>		_!	_
1,3-DICELOROSENZENE	34566		<u> </u>		1	+			
1.4-DICHLOROSENZENE	3. 4 5. 7-1-	•	-	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<del>-</del>			<u> </u>	_ :
DICHLORODIFUCROMETHANE	3 4 6 6 8	-	<u> </u>					<u> </u>	_
1,1-DICHLORCETFANE		<u>  -                                   </u>	<u> </u>		<del>-</del>	•		<u> </u>	_
1 2-07/700 000000	<u>34496</u> 34531	<u> </u> 	·		<u> </u>			<u> </u>	_
r_1 2 71000 00 000			<u> </u>		<u> </u>	<del></del>	<u> </u>	<u>-  </u>	_
1 2-375	<u>3 4 5 4 6 </u> 3 4 5 4 1.				<u></u>			<u>-  </u>	_
C-1 3-77/27 27 27 27 27 27 27 27 27 27 27 27 27 2		•	-	<		· • • · -	-	-	-
1 2 37 37 37 37 37 37 37 37 37 37 37 37 37	3 4 7 0 4			<u> </u>	<u> </u>				-
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	3 4 5 L 6.	<u>.</u>	_	<u> </u>				<u>-                                     </u>	<u></u>
1 1 1 777-7	3 4 4 7 5			<	<u></u>				_
1 -1 2	4 5 0 6	-	-	<u> </u>	<u> </u>				_
TO LOTE ORGE	4.5 1 L	-	_	<	· • • • · · · · · · · · · · · · · · · ·	9		_	
	9 1 8 0	.		.,	<u> </u>	<del> •</del>		_	
VIVVI CIT OR TR	4 4 8 8.	<u>  </u>		<	.1			.   -	-
Onis Kespunch Luman	9175		_	<u> </u>			<u> </u>	. ] -	

RECORD CODE LIPICISIMIO 121 TRANS CODE A
SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2
REGION Mayrood Co. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{W}{1} = \frac{7A}{22}$ DATE COLLECTED  $\frac{07}{22} = \frac{25}{M} = \frac{91}{123}$ IEPA LAB (2 of Blank)  $\frac{39}{22}$ 

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	7 A A - 7 6 - H - 9 6 4 A A		\ OR >	VALUE	ASSORTING LEVEL
BENZINE	34030	33		4	1	13 19
TOLUENE	340L0	<u>.</u>	_	4	1	
XXLENES	_8_1_5_5_1			く	1	
c-1,2, Dichloroethene	4 5 6 2 7.			4	1	_   _
	<u> </u>					
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			_ <u></u>			

LIBICIS! MIAIN DIVISIO	ON OF LAND PO CHEMICAL AN	LLUT	ION CO	NTROL Page	1 of 3
REPORT DUE DATE 10 / 01 / 9 1	FEDERAL ID NUM	BER .	LLI	0 8 5 3 5 2	4 7 4
FACILITY NAME	5 0 7 2 18 RCRA	IEPA		r Blank)	AR 23
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SA	MPLE (3	54	TIME COLLECTED 55 H	—÷—— <sub>M 5ã</sub>
DATE RECEIVED 42 M D Y 47  SAMPLING PURPOSE CODE 40  10 Instructions 1  1 (ME CARD PROGRAM CODE 49 51 & LINTI CODE 52	UNABLE TO COLL (see Instructions)  MONITOR POINT: (see Instructions)  SAMPLE FIELD FILT	Sample	CPLE 5	OTHER SPECIFIC  OCICS (X) ORGANICS (X)	
SAMPLE APPEARANCE					
COLLECTOR COMMENTS					
SPECIAL INSTRUCTIONS TO LAB					
Larry Poynter LDP ASI COLLECTED BY INITIALS DIVISION	or company Flab use only	TRANSP	ORTED B'	: ASI Y DIVISION OR COMPA	NY
LAB SAMPLE NO. LAB NAME  DATE RECEIVED 07-26-91 AND ADDRESS  TIME RECEIVED SAMPLE PROPERLY PRES  L' TOMMENTS TED	ERVED (Y/N) DA	TE COM	PLATED (	LAB ID NO. 146 — — — — — — — — — — — — — — — — — — —	
			SUPERV	ISOR SIGNATURE	
ECORD CODE   L   P   C   S   M   G   Z   TRANS CO	DE A COLUM	NS 9-29	FROM AB	OVE	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER		V OR A	VALUE	REPORTING LEVEL
TEMP OF WATER SAMPLE (unfiltered)(°f)		- I	37 38		म म
, ELEVATION OF GW SURFACE (ft. ref MSL)		_   _	_ _		_   _
WELL DEPTH ELEVATION (ft. ref MSL)	72020	_   _			_   _
DEPTH TO WATER FROM MEAS. PT. (ft)		_   _	_ _		
		_	<u> </u>		_   _
		_   _	_ -		_   _
		-   -	_ _		
		-	_ _		
		-   -	<u> </u>		1 - 1 -

RECORD CODE | L| P| C| S| M| 0 | 2 | TRANS CODE | A|
TITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2
REGION Maywood CO. Cook RCRA

IPM
FACILITY NAME

MONITOR POINT NUMBER M W 1 7AR

DATE COLLECTED 07 25 91

EPA LAS (2 or Black)

-	LAB MEASUREMENTS		::	:	<	<del></del>	REPORTING
	CONSTITUENT DESCRIPTION AND	STORET NUMBER			OR	VALUE	DEVEL
<u>-</u> -	required unit of measure				>		ing a porteas.
	BROMODICELOROMETEANE	32101	75	াম	<b></b>	<del></del>	च ज
	BROMOFORM	32104			4		
	BROMOMETEANE (Methyl Browide)	3 4 4 1 3.			4	1	
	CARBON TETRACELORIDE	3 2 1 0 2			4	1	_   _
	CELOROBENZENE	3 4-3-0-1-	<b>_</b> .	_	4	1	_ _
	CELOROETEANE	3 4 3 1 1 1		_	4		
	2-CELOROFIET VINTL ETHER		-		1	1	_   _
	CHICROFORM	32106			4		_   _
	CELOROMETEANE	3.4418		_	4	1	_   _
	DIBROMOCELOROMETEANE	32105		_	<	1	_ -
	1,2-DICELORGBENZENE	3 4 5 3 6		-	4	1	_   _
	I,3-DICELORGBENZENE	34566		-	4	1	_ _
	L.4-DICHLOROBENZENE	3. 4. 5- 7-1-	-		4	1 •	
	DICELORODIFUCROMETHANE	3.4668			1	1	
	1,1-DICELORGETHANE	34496			<		<u>  _   _ </u>
	1,2-DICELOROETEANE	3 4 5 3 1	-	_	<	1	<u>                                     </u>
	t-1,2-DICHLORGE HANG	3 4 5 4 6			<		<u>  _   _ </u>
}	1,2-DICELOROPROPANE	3 4 5 4 1.		-	4	1	_   _
	c-1,3-DICHLOROPROPANE	3 4 7 0 4			<		
	t-1,3-DICHLOROPROPANE	3 4 6 9 9			<	1	_   _
	WELLEALTINE CETORIDE	3 4 4 2 3	_		<		_   _
	1,1,2,2-TETRACELOROETEANE	3 4 5 1 6.	<u>.</u>	-	<	1	_
i	TETRACELOROETEENE	3 4 4 7 5		_	4	1	1_1_
7	1,1,1-TRICHLOROETHANE	3 4 5 0 6	_		<		<u>                                     </u>
İ	1;1,2-TRICELOROETEANE	3 4.5 L L			<	1	
1	TRICHLOROETHENE	3 9 1 8 0	-	_		1	_ .
1	TRICELOROFLUOROMETHANE	3 4 4 8 8	<b>-</b> -		<	1	
İ	VINYL CELORIDE	3 9 1 7 5			1	1.	
<u> </u>	** Tank V. Santanah I.	1 3 7 1 7 3.	لــنــا	<u> </u>		<u> </u>	

RECORD CODE LIPICISIMIO 12 TRANS CODE A

SITE INVENTORYNUMBER 0 3 1 0 6 3 5 0 7 2

REGION Mayrood CD. Cook RCRA

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{1}{25} \frac{7AR}{25}$ DATE COLLECTED  $\frac{07}{25} = \frac{25}{125} = \frac{91}{125}$ IEPA LAB (2 or Blank)  $\frac{39}{25} = \frac{1}{25} =$ 

FACILITY NAME ALFORTING LAB MEASUREMENTS LIVE STORET CONSTITUENT DESCRIPTION AND OR VALUE NUMBER REQUIRED UNIT OF MEASURE > BENZEME 3 4. Q L Q TOLUENE XYI ENES c-1,2, Dichloroethene 4 5 6 2 7.

CODE CODE DIVISI	ON OF LAND F CHEMICAL AN	OLLU	TION	CONTROL RM	Page 1 of 3
REPORT DUE DATE 10 / 01 / 9 1	FEDERAL ID NU	MBER	ŢŢ	<u> </u>	5 2 4 7 4
REGION MAYWOOD CO. COOK  IPM  FACILITY NAME	5 0 7 2 RCRA	DA LEX	TE COL	ctions) 19 07 / 25 LECTED 22 M D	W 1 7B -/91 -/
FOR IEPA USE DNLY COMPLAINT NO.	BACKGROUND S			TIME COLLECTED	<u> </u>
DATE RECEIVED 42 M / D / Y + 7  AMPLING PURPOSE CODE 40  IME CARD PROGRAM CODE 49 51 & UNIT CODE 53	UNABLE TO CDI (see Instructions) MONITOR POIN' (see Instructions) SAMPLE FIELD FI	T Sampl	ample ed by	59 OTHER GRECK	55 H M 53 3) ANIC3 (X) 52
SAMPLE APPEARANCE		·			- <del></del>
COLLECTOR COMMENTS					- 102  - 142
SPECIAL INSTRUCTIONS TO LAB					
(3)	OR COMPANY =LAB USE ONLY=	Trans	PORTE	A 10 KOISIVIQ YE C	
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED SAMPLE PROPERLY PRES L: OMMENTS TEO	ERVED (Y/N) D	DATE CO	MPLET	<del></del>	
				ervisor signature	
CORD CODE LIPICISIMIO 121 TRANS CO	DE LA! (COLU	MNS 9-2	9 FROM	SVOEA	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	***********	V OR A	VALUE	REPORTING LEVEL
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011	্যত্ত বিচ	-		
ELEVATION OF GW SURFACE (ft. ref MSL)	71993	_   _	_		
WELL DEPTH ELEVATION (ft. ref MSL)	72020	_   _	1-1		_
	72109	_   _	1_1		_ _
		_   _	1_1		_ _
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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

CODE

TE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maybood co. Cook RCRA

FACILITY NAME

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MONITOR POINT NUMBER  $\frac{M}{19} = \frac{1}{25} = \frac{7B}{25}$ DATE COLLECTED  $\frac{07}{25} = \frac{25}{25} = \frac{91}{25}$ 

EPA LAB (z or Blank)

LAB MEASUREMENTS	STORET			<	77 1 7 77700	AEFORT:	
CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	NUMBER		,	OR >	VALUE	(100)250   1 h (250)   (40)   (100)	-
BROMODICELOROMETHANE	32101	ফ	is.	4	10		_
BROMOFORM	32.LQ4			4	10		
BROMOMETRANE (Methyl Browide)	34413			4	10		
CARBON TETRACELORIDE	3 2 1 0 2			4	10		
CELOROBENZENE	3 4 3 G L	<b>-</b>		<u>८</u>	10	<u> </u>	
CELOROE TEANS	3 4. 3. 4. 1			<	10	<u> </u>	
2-CHLOROFIEN VINYL BIHER		-	_	く	10		
CETOROFORM	3 2 1 0 6	_	. 1	<	10	<u> </u>	-
CELOROME TEANE	3.4418		_	く	10	_	
DIBROMO CHLOROMETHANE	3 2 L Q 5		-	<u> </u>	10	_	
1,2-DICHLORGHNZENE	3 4 5 3 6	-	-	<	10		
1,3-DICHLOROSENZENE	3.45.6.6			4	10		
1.4-DICHLOROSENZENE	3. 4. 5- 7-1-		_	6	10	_	_ †
DICHLORODIFUOROMETHANE	3.4668		-	<	10	_	
1,1-DICHLORGETHANE	3 4 4 9 6-			<	10	_	
1,2-DICHLOROETHANE	3 4 5 3 1	_		<	10	_	
t-1,2-DICHLOROSTHANE	34546			<	10		
1,2-DICHLOROPROFANE	3 4 5 4 1.			<	10	-	_
c-1,3-DICHLOROPROPANE	3 4 7 0 4	<u>.</u>		<	10		
t-1,3-DICHLOROPROPANE	3 4 6 9 9	<u> </u>		<	10	-	_
		<u> </u>		1	10	1_1	
METHYLENE CHLORIDE  1,1,2,2-THTRACHLOROETHANE	3 4 5 1 6.	<del>  -</del>   .		<u>\</u>	10	1-1	
		<u>  -                                   </u>	<u>                                     </u>	<	10	.   _	
TETRACELOROETEINE	134475	1	<u>                                     </u>	<	10		
1,1,1-TRICHLOROETHANE	3 4 5 0 6	<u>  -</u>		4	10		
1;1,2-TRICHLOROETHANE TRICHLOROETHANE	3 4.5 1 1	<del>-</del>	] <del>-</del>	1 -	1800		
TALCALORUEIAENE	3 9 1 8 0	-	-	<u> -</u>	10	-	-
RICELOROFLUOROMETEANE	3 4 4 8 8			<u>                                     </u>	10	<del></del> -	$\dashv$
VINYL CHLORIDE	3 9 1 7 5	. :::::		- 13×		<u> </u>	

RECORD CODE LIBICISIMIO 12 TRANS CODE LA SITE INVENTORE NUMBER 0 3 1 0 6 3 5 0 7 2 REGION Mayrood Co. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{W}{20} = \frac{1}{20} = 7B$ DATE COLLECTED  $\frac{07}{20} = \frac{25}{M} = \frac{91}{20}$ EFA LAB (2 or Slank)  $\frac{29}{20} = \frac{1}{20}  

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER	*** ****		CR	VALUE	AEPOR LEVE	2'-
BENZINE	34030	25	ाम	<u>ر</u>	10		10
TOLUENE	34.010		_	<u>∠</u>	10		
YET THES	<u>ـ 3 ـ 1 ـ 3 ـ 1</u>			4	10		
c-1,2, Dichloroethene	<u>4 5 6 2 7.</u>			••	33	_ [	_
			_				_
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			-	•	· · · · •	<u> </u> _	_
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	ON OF LAND P CHEMICAL AN			Page 1 of
	CITMITONE 121		TORM	
REPORT DUE DATE 10 , 01 , 9 1	FEDERAL ID NU	MBER	<u> </u>	3 5 2 4 7 4
STE INVENTORY NUMBER 0 3 1 0 6 3	5 0 7 2	MOK	(ITOR POINT NUMBER 19	1 W 1 8A
AEGION Maywood CO Cook	_ RCRA		Instructions) 19 E COLLECTED 07 /	$\frac{25}{D} - \frac{91}{123}$
IPM		EPA	LAB (z or Blank)	J 123
FOR IEPA USE ONLY COMPLAINT NO.			instructions!	
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND S.	AMPLE O	O TIME COLLECT  54 (24 HR CLOCK)	ED 55 H M 58
DATE RECEIVED 42 M-/-p-/	JOS OT ELEANU (see Instructions)	LECT SAI	MPLE 59	
AMPLING PURPOSE CODE	MONITOR POINT	'Sample	D 3Y 07-23 GP	
PROGRAM CODE 49 52 & UNIT CODE 53	(see Instructions)			
49 52 53			inorganics (x) <del>si</del>	210411107 (1) 22
SAMPLE APPEARANCE	:			
COLLECTOR COMMENTS				
SPECIAL INSTRUCTIONS TO LAB				<u> </u>
Larry Poynter LDP ASI		<u> </u>		
Larry roymeer	OR COMPANY	TRANSP	ORTED BY DIVISIO	ASI N OR COMPANY
	=Lab use only=			
DATE RECEIVED 07-26-91 AND ADDRESS		<del></del>	LAB ID NO	. t+1 — +41
TIME RECEIVED				
SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRES	SERVED TYNN D.	ATE COM	<u>PLETED 08-08-9</u> 1 FORW	ARD
L) TOMMENTS TEO				
				139
CORP CORP			SUPERVISOR SIGNATUR	
CORD CODE LIPICIS MIDIZ TRANS CO	ODE LA! (CDLU	MNS 9-29	FROM ABOVE:	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND	STORET		<	REPORTING LEVEL
REQUIRED UNIT OF MEASURE	NUMBER		OR VALUE	7 mg at 250 cm
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011			
		ज क	<u> </u>	<u> </u>
ELEVATION OF GW SURFACE (ft. ref MSL)	171993	1 1		1 1
MELL DESTIL ELEMENTON ( a. C. MOL)	1	<u> </u>		
WELL DEPTH ELEVATION (ft. ref MSL)	72020	_   _		
DEPTH TO WATER FROM MEAS. PT. (ft)	1			
The state of the s	72020	_   _		
The state of the s	72020			
The state of the s	72020			
The state of the s	72020			
The state of the s	72020			
The state of the s	72020			

LILLIOUS ENVIRONMENTAL PROTECTION AGENCY

RECORD CODE LIPICISIMIO 121 TRANS CODE LAI
TTE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2
REGION Maywood CO. Cook RCRA
TPM
FACILITY NAME

MONITOR POINT NUMBER M W 1 8A

DATE COLLECTED 07 25 91

EPA LAS (5 or Blank)

		<del>,</del>	·				
LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	***		< OR	AYTHE	12	RTING VEL
BROMODICHLOROMETHANE	3 2 L C L		<u>  :</u>	>	200	Treated in the same	1 2
BROMOFORM	2 2 L 0 4	-37	<u> </u>	<u></u>	200	<u> </u>	<del>,,</del>
BROMOMETEANE (Methyl Bromide)	3 4 4 1 3.			4	200	-	
CARBON TETRACELORIDE	3 2 1 0 2				200		
CHLOROBENZEME	3 4-3-0-1	.		۷	200	<u> </u>	
CELOROETEANE	3 4 3 1 1				200	<u>-                                    </u>	
2-CHLOROFIET TENTL BILLER		.		2	200	<u>-                                    </u>	
CELOROFORM	32106			<	200		
CELOROMETEANE	3. 4 4 1 8			2	200	<u> </u>	
DIBROMOGELOROMETHANE	32105		_	<	200	_	
1,2-DICELOROSENZENE	3.4 5 3 6	.	_	2	200	_	
1,3-DICELOROSENZENE	3 4 5 6 6			<u> </u>	200	<u>-</u>	<u> </u>
1.4-DIGHLOROSENZENE	3. 4. 5. 7-1-	-		<	200		<u> </u>
DICELORODIFECROMETHANE	3.4668	-	-	<u> </u>	200		
1,1-DICHLORGETHANE	34496			<u> </u>	200		
1,2-DICELOROETEANE	3 4 5 3 1	_	_	<	200		
t-1,2-DICHLOROSTHANE	34546		<		200		
1,2-DICELOROPROPANE	3 4 5 4 1		. <	4	200	_	_
c-1,3-DICELORGPROPANE	34704	.	<	<	200		_
t-1,3-DICELOROPROPANE	34699			7	200	_	_
WENEXTENE CETOKEDE	3 4 6 2 3-  -	1.	.   .	<	200	_	
1,1,2,2-TETRACHLOROETHANE	3 4 5 1 6.		.	< │.	200	_	
TETRACELOROETHENE	34475 -		_   ,	<u> </u>	200		
1,1,1-TRICHLOROFTHANE	<del>3</del> 4- 5- 0- 6		İ	4	200.		
1;1,2-TRICELOROSTEANE	3 4.5 L L   .	-	.   4	<	200		
TRICALOROETHENE	3 9 1 8 0	1_	.   .		15,000	_	
TRICELOROFLUOROMETEANE	3 4 4 8 8		<		200		_
VINYL CHLORIDE	3 9 1 7 5	1.	≤	١.	200	_	_
213-1-1-1-1		<del></del> -		<u> </u>	<del></del>		

RECORD CODE LIPICIS | MIO 12 | TRANS CODE LA |
SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2
REGION Maywood CO. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER M W 1 8A

DATE COLLECTED 07 , 25 , 91

22 M D Y 28

IEPA LAB (2 or 3lank)

"								
	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER	H . H . H . A .		V OR	YALUE	12	NET NO
*	BENZYNE	34030			>	200	777.0	Parting ap
	TOLUENE	3 4 O L O	22	7.8	<u> </u>	200	13	1 19
	XYLENES	_8_1_5_5_1	<del>  _</del>		4		-	
	c-1,2, Dichloroethene	<u>4 5 6 2 7</u>				470	_	
			-	_				
			-	_				
<u> </u>				_	.		_	
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	*Dris Kansan I							-

CODE CODE DIVISI	ON OF LAND POI CHEMICAL ANA	LLUTION C	ONTROL I	Page I of 3
REPORT DUE DATE $\frac{10}{36}$ $\frac{01}{M}$ $\frac{9}{D}$ $\frac{1}{1}$	FEDERAL ID NUME	BER <u>I L</u>	D 0 8 5 3 5	2 4 7 4
SITE INVENTORY NUMBER 0 3 1 0 6 3  LEGION Maywood CO. Cook  IPM  FACILITY NAME	5 0 7 2 RCRA	MONITOR ? Goe Instruct DATE COLL IEPA LAE G Goe Instruct	ECTED 22 M D	1 8B / 9Î / Y 23
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAM	OPLE (X)	TIME COLLECTED	
DATE RECEIVED 42 M D Y47  SAMPLING PURPOSE CODE 46  LIME CARD PROGRAM CODE 19 52 & UNIT CODE 53	UNABLE TO COLLE (see Instructions) MONITOR POINT SA (see Instructions) SAMPLE FIELD FILTE	CT SAMPLE	59 OTHER GRECTER	
SAMPLE APPEARANCE				 T02
SPECIAL INSTRUCTIONS TO LAB				
		RANSPORTED	ASI BY DIVISION OR C	
LAB SAMPLE NO. LAB NAME		E COMPLETE	LAB ID NO. 148  08-08-91 FORWARD	
		SUPE	EVISOR SIGNATURE	
SCORD CODE LIPICISIMIO 12 TRANS CO	DE A COLUMN	(S 9-29 FROM /	SVOE	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	V OR	VALUE	REPORTING LEVEL
TEMP OF WATER SAMPLE (unfiltered)(°f)	00011	36 37 38		- # # B
ELEVATION OF GW SURFACE (ft. ref MSL)		_ _ _		_
WELL DEPTH ELEVATION (Ft. ref MSL)	72020 _	_   _   _		_
DEPTH TO WATER FROM MEAS. PT. (ft)	72109 _	- - -		_   _
		<u>                                     </u>		_
		1 1 1		
	<u> </u>	<u>  -   -   -</u>		_
	- 	-   -     -   -		
				<u>   -   -  </u>   -   -

RECORD CODE | L | P | C | S | M | 0 | 2 | TRANS CODE | A |

SITE INVENTORY NUMBER | 0 | 3 | 1 | 0 | 6 | 3 | 5 | 0 | 7 | 2 |

REGION | Maywood | COOK | RCRA |

| TPM | FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19}$   $\frac{W}{19}$   $\frac{1}{25}$   $\frac{8B}{91}$ DATE COLLECTED  $\frac{07}{25}$   $\frac{25}{91}$ DEPA LAB (2 of Blank)

BROMODICELOROMETHANE	3 2 1 0 1			<b>                                     </b>		1	t req =
		37	.TAT	4	100	_	- <del></del>
BROMOFORM	32104		_	2	100		
BROMOMETHANE (Methyl Bromide)	24413			4	100		
CARBON TETRACHLORIDE	3 2 1 0 2			<		_	
CELOROBENZZNE	3 4 3 0 1		_	4	100	_	
CELOROETFANE	3 4 3 1 1 -			<	100		
2-CHLOROETHI VINYL BIHR		-		<	100		_
CHLOROFORM	32106		.	<	100	_	.
CELOROMETEANE	3.4418		_	<	100		
DIBROMOGELOROMETEANE	32103		_	<	100	Ī _	_
1,2-DICHLOROBENZENE	34536	-	_	<	100	_	
1,3-DICELOROBENZENE	3 4 5 6 6		-	<	100	<u> </u>	
1.4-DICELOROSENZENE	3-45-7-1-	-	_	4	100		_
DICELORODIFUCROMETHANE	34668		<b>.</b>	4	. 100	_	
1,1-DICELORGETEANE	3 4 4 9 6		<b>.</b>	<	100		
1,2-DICHLOROFIEANE	3 4 5 3 1	_	_	<b></b>	100	_	_
t-1,2-DICHLOROFTEANE	34546			<	100	_	
1,2-DICELOROPROPANE	3 4 5 4 1.		-	~	100	-	
c-1,3-DICELOROPROPANE	34704	-		<del>〈</del>	100		-
t-1,3-DICELOROPROPANE	3 4 6 9 9			7	100	-	
WELEXTENE CETOLIDE	3 4 4 2 3		-	<	100	_	
1,1,2,2-TETRACELOROETEANE	3 4 5 L 6.	-	_	<	100	-	
TETRACELOROETEME	34475		_	<	100	_	_
1,1,1-TRICELOROETHANE	3 4 5 0 6	_		-<	100	_	
1,1,2-TRICHLOROETHANE	3 4.5 1 L		-	<	100		_
TRICHLOROETHENE	3 9 1 8 0				2000	1_	-
TRICELOROFLUOROMETHANE	3 4 4 8 8			<	100	1	-
VINYL CHLORIDE	3 9 1 7 5			<u>,</u>	100		-

RECORD CODE LIPICISIMIO 12 TRANS CODE A

SITE INVENTORY NUMBER J 3 1 0 6 3 5 0 7 7

REGION Mayrood CO. Gook RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19} = \frac{W}{25} = \frac{1}{25}$ DATE COLLECTED  $\frac{07}{22} = \frac{25}{M} = \frac{91}{23}$ IEPA LAB (2 of Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER			V BO V	VALUE	AEPORTING LEVEL THE PROPERTY OF THE PROPERTY O
BENZINE	3 4 0.3 0.	33	াম	4	100	18 19
TOLUENE	34.Q.L.Q.			۷		
XTENES	_8_1 _5 _5 _1			۷	100	
c-1,2, Dichloroethene	<u>4 5 6 2 7.</u>	<u>-</u>		۷	100	
	<u></u>	-	_	-		
		_				
	<u> </u>		-	-	· · · · · · · · · · · · · · · · · · ·	- -
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				<u>.</u>		- -
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	IN VIRUNMENTAL ON OF LAND POI CHEMICAL ANA	LUTION CO	ONTROL Pa	ge I of 🔼
REPORT DUE DATE 10 , 01 , 0 1	FEDERAL ID NUMB	ER <u>I L</u>	D 0 8 5 3 5	2 4 7 4
COOK  LPM  FACILITY NAME	5 0 7 2 18 RCRA	MONITOR PO	ons) 07 / 25 / or Blank)	0A 91 
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAM	PLE CO 54	TIME COLLECTED _	
DATE RECEIVED 42 M / D / Y47  SAMPLING PURPOSE CODE 46  e Instructions!  E LME CARD PROGRAM CODE 49 32 & UNIT CODE 52	UNABLE TO COLLE (see Instructions) MONITOR POINT SA (see Instructions) SAMPLE FIELD FILTE	CT SAMPLE	(24 HR CLOCK) 5.  59  60  GTHER (SPECIFY)  NICS (X) 81  ORGANIC	5 H M 55
SAMPLE APPEARANCE				_
COLLECTOR COMMENTS				- - -
SPECIAL INSTRUCTIONS TO LAB				
المستحدث الألاالا		RANSPORTED	ASI  OIVISION OR COM	MPANY
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED  SAMPLE TEMP OKAY TY/N SAMPLE PROPERLY PRE  COMMENTS TED	SERVED (Y/N) DAT	E COMPLETED	LAB ID NO	
		SUPER	IVISOR SIGNATURE	
CORD CODE LIPICISIMIO 1 2 1 TRANS CO	ODE A (COLUMN	S 9-29 FROM A	BOVE:	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	OR	VALUE	REPORTING LEVEL
TEMP OF WATER SAMPLE (unfiltered)("f)	00011			म म च
ELEVATION OF GW SURFACE (ft. ref MSL	1			
	72020	1_ _ _		
	72109 _	- - -		
		1-1-1-		_ _ _
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This Agency is sufforced to require this information under standard Statutes 1979. Chapter 111.1.2. Section 1004 and 1021. Disciplinary of this immortation is required Fautre to do to make result in a Over pension up to 325,000 for each day the fautre commiss. 3 fine up to \$1,000,000 and unprecomment up to nine year. This form has been appropriate to the Fautre Contain Containing to 10/18.2.

\*\*Only Key princh Lines with Dutte in Column 25 or Column 26.4.\*

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 D CODE
 LIPIC: SIMIO! 2:
 TRANS CODE
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 VENTORY NUMBER
 0
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 Mayrood
 co.
 Cook
 RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19}$   $\frac{W}{2}$   $\frac{2}{20}$   $\frac{0A}{25}$  DATE COLLECTED  $\frac{07}{23}$   $\frac{25}{M}$   $\frac{91}{23}$  IEPA LAB (5 or Blank)

LAB MEASUREMENTS	STORET			٧		AZPOSTING LEVEL	
CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	NUMBER			OR >	VALUE	Trestation (70%) (140%)	[
BROMODICELOROMETHANE	32101	3	<b>3</b>	4	<u> </u>	_	<del>.,</del>
BROMOFORM	32104		_	4			
BROMOMETHANE (Methyl Browide)	34453.		_	<u> </u>	1	_	
CARBON TETRACELORIDE	3 2 1 0 2			4	_ · · <sup>1</sup> <b>- · · </b>		
CELOROBENZENE	3 4 3 0 1			4			
CELOROETEANE	3 4. 3. 1. 1			۲	<u> </u>		
2-CHLORGETHY VINYL ETHER	<u> </u>	-		4	1	<u>                                     </u>	
CELOROFORM	32106			Ļ	1	<u> </u>	
CELOROMETEANE	3.4418			く	1		
DIBROMOGELOROMETHANE	32105		_	4		<u> </u>	
1,2-DICELOROBENZENE	3.4 5 3 6	-	_	4		<u> </u>	
l,3-dicelorobinzene	34566			4		<u> </u>	
4-Dicelorosenzene	3.4 5-7-1-	-		4		<u> </u>	
DICELORODIFUCROMETEANE	34668	-	-	4	1	<u> </u>	
l, I-Diceloroeteane	34496-			<		1-	
1,2-DICELOROETEANE .	3 4 5 3 1		<u> </u> _	5		<u>.                                     </u>	
t-1,2-DICHLOROFTHANE	34546			K.	1	- \ -	
1,2-DICELOROPROPANE	3 4 5 4 1.	<u> </u>		4	.1	-	-
c-1,3-DICHLOROPROPANE	3 4 7 0 4	<u> </u>		4	1		<u> </u>
c-1,3-DICHLOROPROPANE	3 4 6 9 9	<u> </u>	<u> </u>	2	1	+-	
METERLENE CHIORIDE	3 4 4 2 3	]	<u> </u>	1	1	<u> </u>	_
1,1,2,2-THTRACHLOROETHANE	3 4 5 L 6.	<u>}                                    </u>		<	· [	1-	
TETRACELOROETHENE	34475	<u> </u>	<u> </u>	1	·		
1,1,1-TRICHLOROETHANE	3 4 5 0 6	<u> </u>	<u>  </u>	1	-	<u> </u>	<u>                                     </u>
1,1,2-TRICELORCETHANE	3 4.5 L L	<u> </u> .	<u> </u>	1	1	-   -	
TRICHLOROETHENE	3 9 1 8 0	<u> </u>			7	.   _	.   .
TRI LOROFLUOROMETHANE	3 4 4 8 8	<u> </u>		<	.1		
VINYL CELORIDE	3 9 1 7 5	<u> </u>	<u>                                     </u>	2			

RECORD CODE LIPICISIMIO 12 TRANS CODE LA STREINVENTOR NUMBER 0 3 1 0 5 3 5 0 7 2 REGION Maywood CO. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19}$   $\frac{W}{2}$   $\frac{20}{22}$  DATE COLLECTED  $\frac{07}{22}$   $\frac{25}{M}$   $\frac{91}{28}$  IEPA LAB (2 or Blank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER	******	*******	٧ 8 ٨	VALUE	REPORTING LEVEL
BENZINE	34030	38	াম	4	1	18 19
TOLUENE	34010			<u>८</u>	I	
XYLENES	_8_1_5_5_1		_	۷	1	
c-1,2, Dichloroethene	<u>4 5 6 2 7.</u>			4	1	
				<b>-</b>		
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				<u>  -</u> 		
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		-	-	<u> </u>	•	
	<u> </u>			<u> </u>		<u>·] - ] - </u>

CODE CODE DIVISI	nvirunment on of Land P chemical an	OLLUT	ON CONT	AGENCY ROL F	Page 1 of _	3_
REPORT DUE DATE 10 , 01 , 9 1 1 15 M D Y +1	FEDERAL ID NU			0 8 5 3 5		_4
SITE INVENTORY NUMBER 0 3 1 0 6 3  AGION Maywood CO. Cook  TPM  FACILITY NAME	5 0 7 2 RCRA	DAT: IEPA	ITOR POINT (Instructions) E COLLECTE LAB (In or B (Instructions)	D 07 / 25 D	2 0B 222 91 Y 23	
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND S	ample (x		INE COLLECTED		M 5á
DATE RECEIVED 42 M / p / Y 47  IAMPLING PURPOSE CODE 40  WE Instructions 1  LIME CARD 1200 E UNIT CODE 52	UNABLE TO COL (see Instructions) MONITOR POINT (see Instructions) SAMPLE FIELD FIL	Sample:	APLE 59 D 3Y 60	OTHER (SPECIFY)  (X) ST ORGAN	<u>.</u>	53
SAMPLE APPEARANCE		· · · · · · · · · · · · · · · · · · ·				
COLLECTOR COMMENTS						
SPECIAL INSTRUCTIONS TO LAB		<del> </del>				
Larry Poynter LDP ASI COLLECTED BY INITIALS DIVISION	OR COMPANY =LAB USE ONLY=	Transp	ORTED BY	ASI DIVISION OR C	OMPANY	·
LAB SAMPLE NO.  DATE RECEIVED 07-26-91  AND ADDRESS  TIME RECEIVED  SAMPLE TEMP ORAY  TYTN:  SAMPLE PROPERLY PRE	SERVED (Y/N) D	ATE COM	PLETED 08	-06-91 FORWARD		
			SUPERVIS	OR SIGNATURE		
CORD CODE   LIPICISIMIO   2 TRANS CO	DDE LA! (COLU	MNS 9-29	FROM ABOV	<u>ਦ</u> ।		
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER		OR >	VALUE	782707   297   382714   371   181	
TEMP OF WATER SAMPLE (unfiltered)("f)	00011	. J. J. J. J. J. J. J. J. J. J. J. J. J.	se			<u>।व</u>
ELEVATION OF GW SURFACE (ft. ref MSL		_   _	_			_
WELL DEPTH ELEVATION (ft. ref MSL)	72020	_   _			_	_]
	Z2109	_   _			_	_
					<u> </u>	
	<u>    </u>				<u> -</u>	
		_  -  -				
			_	<u>_ •</u>	<u> </u>	_
					<u> </u>	
		_				

CHEMICAL ANALYSIS FORM

Page Z of 3

RECORD CODE LIPICISIMIO 121 TRANS CODE A
SITE INVENTORY NUMBER 0 3 I 0 6 3 5 0 7 2
REGION Maybood Co. Cook RCRA
IPM
FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19}$   $\frac{W}{2}$   $\frac{2}{32}$  OB DATE COLLECTED  $\frac{07}{23}$   $\frac{7}{4}$   $\frac{25}{23}$   $\frac{91}{4}$ 

IEPA LAB (x or Blank) nor

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET NUMBER	1	*** - * * -	O.F		VALUE		I = U/D	RTING VEL
BROMODICELOROMETEANE	3 2 1 0 1	<del></del>		-   <del>-</del>   -	<u>'</u>	•	, <u>11</u>	1988	Description.
BROMOFORM	32.104	ì			1				1.5
BRCMCMETEANE (Methyl Browide)	3 4 4 4 3	<u> </u>		4	1			<u>                                     </u>	
CARBON TETRACELORIDE	3 2 1 0 2			2	1	<del></del>			
CELOROBENZEIE	3 4 3 Q L			/	1	<del></del>			
CELOROETHANE	3 4 3 1 1		<u> </u>		1	<u> </u>		<u> </u>	
2-SELOROSTET VENYL ELEER				2	1	- <del></del> -	<u></u>	!	
CHLOROFORM	3 2 1 0 6	1	<del> -</del>	1	1	·	<del>  </del>		_
CELOROMETERNE	3.4418	<del>                                     </del>	<del>                                     </del>	2	1	,		<u> </u>	-
DIBROMOGELOROMETEANE	3 2 1 0 5		-	4	1	4. •	<u> ·  </u>	<u> </u>	
1,2-DICHLORGHENZENE	3.4536	<u> </u>	<u>  -                                   </u>		1			<u> </u>	_
l,3-DICHLORCHENZENE	3 4 5 6 6	<del>  -</del>	1 -	1	] — - —. ]		<u> </u>		
1.4-DICHLOROBENZENE			<u> </u> 		1_				
DICELORODIFECROMETEANE	3 4 6 6 8	<u>  -                                   </u>	<u> </u>					<u>-  </u>	_
1,1-DICHLORGE FANE		<u>  -</u> 	! • 		, . <sup>1</sup>			<u> </u>	
1,2-DICHLOROFTANE	3 4 4 9 6	<del></del>	<u> </u>	<u> </u>	<u><sup>1</sup> -</u>	<u></u>		_	
	3 4. 5.3.1_	-	<u>  — </u>	<b> </b>	<u> <sup>1</sup> - </u>			_	
1,2-DICHLOROSTHANE	34546-	+ =	<u> </u>		<u> </u>	<u></u>		_	
	3 4 5 4 L	<u> </u>	-	<	I.	· • • · • ·	<u>.                                    </u>	-	-
c-1,3-DICALOROPROPANE	3 4 Z O 4				1				-
t-1,3-DICHLOROPROPANE	3 4 6 9 9	.	•	<	· l	· •		-	
WEITHYLENE CELORIDE	3 4 4 2 3-		-	<	1			_	_
1,1,2,2-TETRACELOROETEANE	34516.	<u>-</u> :		4	1			<u> -  </u>	
TETRACELOROETHINE	3 4 4 7 5			<u> </u>	<u> L</u>	·	<u> </u>		_
1,1,1-TRICHLOROETHANE	3 4 5 0 6-	_		<u> </u>	· <u>l</u> _				
	3 4.5 L L	-		4	<u> </u>			_	
TRICELOROETHENE	3 9 1 8 0	. ]	_	4	. <u>l</u> .			_	-
	3 4 4 8 8			4	1				_
VINYL CHLORIDE	3 9 1 7 5			4	1	- • •		_	_

RECORD CODE LIPICISIMIO 121 TRANS CODE AL STREET INVENTOR NUMBER 0 3 1 0 6 3 5 0 7 2 REGION Mayrood CO. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19}$   $\frac{W}{19}$   $\frac{2}{27}$   $\frac{OB}{M}$ DATE COLLECTED  $\frac{07}{23}$   $\frac{25}{M}$   $\frac{91}{23}$ IETA LAB (x of Blank)  $\frac{19}{29}$ 

مرد روبستالی	SACOTT I NAME		<u> </u>	<del></del>			
	LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND	STORET .			OR	VALUE	AEFORTING LEVEL
	REQUIRED UNIT OF MEASURE		;;	<u> </u>	>		DECEMBER OF THE PARTY OF THE PA
	BENZINE	34030	75-	क	4	1	- I-
	TOLUENE	34010	<u> </u>		2	<u> </u>	_ _
	XYLENES	_8_1_5_5_1		_	2	1	
	c-1,2, Dichloroethene	4 5 6 2 7			٤	1	_   _
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CODE CODE DIVISION	n vironmental protection agency on of land pollution control Page 1 of Chemical analysis form
REPORT DUE DATE 10 , 01 , 9 1	FEDERAL ID NUMBER I L D 0 8 5 3 5 2 4 7 4
ALGION MAYWOOD CO. COOK  IPM  FACILITY NAME	5 0 7 2  MONITOR POINT NUMBER MW 2 2A  (see Instructions) 07 / 25 / 91  DATE COLLECTED 23 M D Y 23  IEPA LAB (x or Blank) 29  (see Instructions) 29
FOR IEPA USE ONLY COMPLAINT NO.	BACKGROUND SAMPLE (X) TIME COLLECTED 55 H M 56
DATE RECEIVED 42 M / D / Y 41 .  RAMPLING PURPOSE CODE 48 .  * Instructions! 1	UNABLE TO COLLECT SAMPLE (see Instructions)  MONITOR POINT SAMPLED BY (see Instructions)  SAMPLE FIELD FILTERED - INORGANICS (X)  ST ORGANICS (X)
SAMPLE APPEARANCE	
COLLECTOR COMMENTS 103	
SPECIAL INSTRUCTIONS TO LAB	
كسلام المالة	OR COMPANY TRANSPORTED BY DIVISION OR COMPANY  LAB USE ONLY
DATE RECEIVED 07-26-91 AND ADDRESS TIME RECEIVED SAMPLE TEMP OKAY (Y/N) SAMPLE PROPERLY PRES	SERVED (Y/N) DATE COMPLETED 08-06-91 FORWARD
	SUPFRVISOR SIGNATURE
CORD CODE LIPICISIMIG 12: TRANS CO	
FIELD MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET OR VALUE  NUMBER  NUMBER
TEMP OF WATER SAMPLE (unfiltered)("f)	0 0 0 1 1
ELEVATION OF GW SURFACE (ft. ref MSL)	
WELL DEPTH ELEVATION (ft. ref MSL)	72020
	72109

Page 4 of 3

RECORD CODE LIPICISIMIO 12 TRANS CODE LA SITE INVENTORY NUMBER 0 3 1 0 6 3 5 0 7 2 REGION Mayrood CO. Cook RCRA

MONITOR POINT NUMBER  $\frac{M}{19}$   $\frac{W}{2}$   $\frac{2}{2M}$ DATE COLLECTED 07 / 25 / IEPA LAB (z or Blank)

FACILITY NAME LAB MEASUREMENTS
CONSTITUENT DESCRIPTION AND < REPORTING STORET LEVEL REQUIRED UNIT OF MEASURE OR VALUE NUMBER BROMODICELOROMETHANE 32101 BROMOFORM 3 2 L Q 4 BROMOMETEANE (Methyl Bromide) 3 4 4 <u>L</u> 3. CARBON TETRACELORIDE 3 2 1 0 2 CHLOROBENZENE 34341 CHLOROETHAME 1 3 4. 3. 1. 1... 2-CELOROFIET VINYL ELEER -- -- -- --CHLOROFORM 32106 CELOROMETEANE 1 34418 DIBROMOGELOROMETEANE 32105 1 1,2-DICHLORGBENZENE 3.4516 1,3-DICELORGSENZENE 3 4 5 6 6 1.4-DICHTOROSENZENE 3. 4 5-7-1-DICELORODIFFOROMETHANE 34668 1,1-DICHLOROETEANE 34496 1,2-DICELOROETEANE . 3 4 5 3 1\_ t-1,2-DICELORCETEANE 34546 1,2-DICELOROPROPANE 3 4 5 4 1 c-1,3-DICHLOROPROPANE 3 4 Z 0 4 t-1,3-DICELOROPROPANE 3 4 6 9 9 METERIENE CELORIDE 3 4 4 2 3 1,1,2,2-TETRACELOROETHANE 3 4 5 L 6. TETRACELOROETEINE 34475 1.1,1-TRICHLOROETHANE 3 4 5 0 6--1;1,2-TRICELOROETHANE 3 4.5 L L TRICELOROETEENE 6 3 9 1 8 0 TRICELOROFLUOROMETHANE 1 3 4 4 8 8. VINYL CHLORIDE 3 9 1 7 5

Page 2 of 5

RECORD CODE | L | P | C | S | M | O | 2 | TRANS CODE | A |

SITE INVENTOR NUMBER 0 3 1 0 6 3 5 0 7 2

REGION Maywood CO. Cook RCRA

FACILITY NAME

MONITOR POINT NUMBER  $\frac{M}{19}$   $\frac{W}{W}$   $\frac{2}{22}$   $\frac{2A}{22}$ DATE COLLECTED  $\frac{07}{22}$   $\frac{7}{25}$   $\frac{91}{728}$ IEPA LAB (± of Slank)

LAB MEASUREMENTS CONSTITUENT DESCRIPTION AND REQUIRED UNIT OF MEASURE	STORET . NUMBER		*******	V OR ∧	VALUE	AEPORTING LEVEL
BENZENE	3 4 0 3 0	_38	ंक	4	1	12 19
TOLUENE	34.010	_	_	<b>∠</b>		
XYLENES	_8_1_5_5_1		_	4	1	
c-1,2, Dichloroethene	<u>4 5 6 2 7</u>				l 	
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# APPENDIX 4 LABORATORY ANALYTICAL SHEETS



CLIENT: IPM

### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

PROJECT: Quarterly

LAB REF. NO.: 12122

SAMPLED BY: AAL - LDP

DESCRIPTION: Water Sample

ANALYST: PN DATE RECEIVED: 07/26/91
DATE ANALYZED: 08/05/91
REPORT DATE: 08/13/91 LAB SAMPLE I.D.: 8525 CLIENT SAMPLE I.D.: MW-1BENZENE . . . . . . . . . . . . . ND TOLUENE . . . . . . . . . . . . ND ETHYLBENZENE . . . . . . . . . . . ND XYLENES (Total) . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . . ND CHLOROBENZENE . . . . . . . . . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable All results are in ug/L

> James E. Fisher Kaboratory Manager

DATE SAMPLED: 07/25/91



### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/05/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8525 MW-1
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE  CHLOROETHANE 2-CHLOROETHYL VINYL ETHER CHLOROMETHANE DIBROMOCHLOROMETHANE  1,2-DICHLOROBENZENE  1,3-DICHLOROBENZENE  1,4-DICHLOROBENZENE  1,1-DICHLOROBENZENE  1,1-DICHLOROETHANE  1,2-DICHLOROETHANE  1,2-DICHLOROETHANE  1,2-DICHLOROETHENE  1,1-DICHLOROETHENE  1,2-DICHLOROPROPANE  c-1,2-DICHLOROPROPANE  t-1,3-DICHLOROPROPANE  t-1,3-DICHLOROPROPANE  t-1,3-DICHLOROPROPANE  t-1,3-DICHLOROPROPANE  t-1,3-DICHLOROPROPANE  t-1,1,2-TETRACHLOROETHANE  1,1,1-TRICHLOROETHANE  1,1,1-TRICHLOROETHANE  1,1,2-TRICHLOROETHANE  TTICHLOROFTHENE  TRICHLOROFTHENE  TRICHLOROFTHENE  TRICHLOROFTHENE	. ND . ND . ND . ND . ND . ND . ND . ND
VINYL CHLORIDE	. ND . 100
<pre>ND = Non Detectable All results are in ug/L MDL = Method Detection Limit</pre>	James E. Fisher Laboratory Manager nef



### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM PROJECT: Quarterly
LAB REF. NO.: 12122 DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/02/91 SAMPLED BY: AAL - LDP REPORT DATE: 08/13/91 DESCRIPTION: Water Sample ANALYST: PN LAB SAMPLE I.D.: 8526 CLIENT SAMPLE I.D.: MW-2BENZENE . . . . . . . . . . . . ND TOLUENE . . . . . . . . . . . . ND ETHYLBENZENE . . . . . . . . . ND XYLENES (Total) . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . ND

CHLOROBENZENE . . . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager

nef



### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly  LAB REF. NO.: 12122  SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/02/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8526 MW-2
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE 2-CHLOROETHYL VINYL ETHER	ND ND ND ND
CHLOROFORM	ND ND
1,3-DICHLOROBENZENE	. ND
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE	ND ND
c-1,3-DICHLOROPROPANE	. ND . ND
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	
PRACTICAL QUANTITATION LIMIT	James E. Fisher Laboratory Manager nef



### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

PROJECT: Quarterly
AB REF. NO.: 12122
SAMPLED BY: AAL - LDP DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/02/91 REPORT DATE: 08/13/91 LAB REF. NO.: DESCRIPTION: Water Sample ANALYST: PN LAB SAMPLE I.D.: 8527 CLIENT SAMPLE I.D.: MW-4A BENZENE . . . . . . . . . . . . . . ND TOLUENE . . . . . . . . . . . . . . . ND ETHYLBENZENE . . . . . . . . . ND XYLENES (Total) . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

1,4-DICHLOROBENZENE . . . . . . ND

CHLOROBENZENE . . . . . . . . . . ND

ND = Non Detectable All results are in ug/L

CLIENT: IPM

Laboratory Manager

DATE SAMPLED: 07/25/91



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/02/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8527 MW-4A
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE  CHLOROETHANE 2-CHLOROETHYL VINYL ETHER CHLOROFORM CHLOROMETHANE	ND ND ND ND ND ND
DIBROMOCHLOROMETHANE  1,2-DICHLOROBENZENE  1,3-DICHLOROBENZENE  1,4-DICHLOROBENZENE  DICHLORODIFUOROMETHANE  1,1-DICHLOROETHANE	. ND . ND . ND . ND . ND . ND
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE c-1,3-DICHLOROPROPANE	ND ND ND ND
t-1,3-DICHLOROPROPANE	. ND . ND . ND . ND MDL = 0.3
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	
PRACTICAL QUANTITATION LIMIT  ND = Non Detectable All results are in ug/L MDL = Method Detection Limit	James E. Fisher Laboratory Manager nef



### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

PROJECT: Quarterly DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/05/91 LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP REPORT DATE: 08/13/91 DESCRIPTION: Water Sample ANALYST: PN LAB SAMPLE I.D.: 8528 CLIENT SAMPLE I.D.: MW-4B BENZENE . . . . . . . . . . . . . ND TOLUENE . . . . . . . . . . . . ND ETHYLBENZENE . . . . . . . . . . ND XYLENES (Total) . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . ND

CHLOROBENZENE . . . . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L

CLIENT: IPM

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/05/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8528 MW-4B
BROMOFORM  BROMOMETHANE  CARBON TETRACHLORIDE  CHLOROBENZENE  CHLOROETHANE  2-CHLOROETHYL VINYL ETHER  CHLOROFORM  CHLOROMETHANE  DIBROMOCHLOROMETHANE  1,2-DICHLOROBENZENE  1,4-DICHLOROBENZENE  DICHLOROBINZENE  1,1-DICHLOROBENZENE  1,1-DICHLOROBETHANE  1,2-DICHLOROBETHANE	. ND . ND . ND . ND . ND . ND . ND . ND
1,2-DICHLOROPROPANE	
c-1,3-DICHLOROPROPANE	. ND . ND . ND
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	. ND MDL = 0.3 . ND . ND . 140 . ND . ND
PRACTICAL QUANTITATION LIMIT	. 5
All results are in ug/L MDL = Method Detection Limit	James E. Fisher Laboratory Manager nef



### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM

ND = Non Detectable
All results are in ug/L

SAMPLED BY: AAL - LDP	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/05/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8529 MW-5A
BENZENE	. ND
TOLUENE	. ND
ETHYLBENZENE	. ND
XYLENES (Total)	. ND
1,2-DICHLOROBENZENE	. ND
1,3-DICHLOROBENZENE	. ND
1,4-DICHLOROBENZENE	. ND
CHLOROBENZENE	. ND
PRACTICAL QUANTITATION LIMIT	. 5

James E. Fisher Laboratory Manager

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### EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/02/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8529 MW-5A
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE	. ND . ND . ND
2-CHLOROETHYL VINYL ETHER	. ND
1,2-DICHLOROBENZENE	. ND
t-1,2-DICHLOROETHENE	. ND
c-1,3-DICHLOROPROPANE	. ND . ND . ND
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	. ND MDL = 0.3 . ND . ND . ND . ND . ND
PRACTICAL QUANTITATION LIMIT  ND = Non Detectable All results are in ug/L MDL = Method Detection Limit	. 1  James E. Fisher  Laboratory Manager  nef



### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM PROJECT: Quarterly DATE SAMPLED: 07/25/91 LAB REF. NO.: 12122 DATE RECEIVED: 07/26/91 SAMPLED BY: AAL - LDP DATE ANALYZED: 08/02/91 DESCRIPTION: Water Sample REPORT DATE: 08/13/91 ANALYST: PN LAB SAMPLE I.D.: 8530 CLIENT SAMPLE I.D.: MW-5AR BENZENE . . . . . . . . . . . . . ND TOLUENE . . . . . . . . . . . ND ETHYLBENZENE . . . . . . . . . . ND XYLENES (Total) . . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . ND CHLOROBENZENE . . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager



### EPA 8010 HALOGENATED VOLATILE ORGANICS

	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/02/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8530 MW-5AR
***	•
BROMODICHLOROMETHANE	
BROMOFORM	
CARBON TETRACHLORIDE	
CHLOROBENZENE	
	. ND
CHLOROETHANE	NT
2-CHLOROETHYL VINYL ETHER	
CHLOROFORM	
CHLOROMETHANE	
DIBROMOCHLOROMETHANE	
1,2-DICHLOROBENZENE	. ND
1,3-DICHLOROBENZENE	. ND
1,4-DICHLOROBENZENE	
DICHLORODIFUOROMETHANE	
1,1-DICHLOROETHANE	
1,2-DICHLOROETHANE	. ND
1,1-DICHLOROETHENE	. ND
c-1,2-DICHLOROETHENE	
t-1,2-DICHLOROETHENE	. ND
1,2-DICHLOROPROPANE	. ND
c-1,3-DICHLOROPROPANE	
t-1,3-DICHLOROPROPANE	
METHYLENE CHLORIDE	
1,1,2,2-TETRACHLOROETHANE	
TETRACHLOROETHENE	. ND MDL = $0.3$
1	
1,1,1-TRICHLOROETHANE	. ND MDL = 0.3
1,1,2-TRICHLOROETHANE	. ND
1,1,1,2-TRICHLOROETHANE	. ND
TRICHLOROETHENE	. ND
TRICHLOROFLUOROMETHANE	. ND
VINYL CHLORIDE	. ND
PRACTICAL QUANTITATION LIMIT	. 1
ND = Non Detectable	· ~ ~ 7 /
All results are in ug/L	(Lange ) tille
MDL = Method Detection Limit	Tomas E Figure
Heriod Becechton Dimit	Laboratory Manager
	nef Manager
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### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM
PROJECT: Quarterly
LAB REF. NO.: 12122
SAMPLED BY: AAL - LDP
DESCRIPTION: Water Sample
ANALYST: PN

LAB SAMPLE I.D.:

EAB SAMPLE I.D.:

BENZENE

BENZENE

ND

TOLUENE

XYLENES (Total)

1,2-DICHLOROBENZENE

DATE SAMPLED: 07/25/91
DATE RECEIVED: 07/26/91
DATE RECEIVED: 07/26/91
DATE RECEIVED: 07/26/91
DATE RECEIVED: 07/26/91
DATE RECEIVED: 08/02/91
DATE ANALYZED: 08/02/91
REPORT DATE: 08/13/91

ND

8531
MW-58

ND

ND

PRACTICAL QUANTITATION LIMIT . . . 1

1,3-DICHLOROBENZENE . . . . . . . ND

1,4-DICHLOROBENZENE . . . . . . ND

CHLOROBENZENE . . . . . . . . . . . ND

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager

nef



## EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/02/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8531 MW-5B
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE  CHLOROETHANE 2-CHLOROETHYL VINYL ETHER CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE	ND ND ND ND ND ND ND ND ND ND ND ND
1,2-DICHLOROBENZENE	ND ND ND
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE	ND ND ND ND ND
c-1,3-DICHLOROPROPANE	ND ND ND ND
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	. ND MDL = 0.3 . ND . ND . ND . ND . ND
PRACTICAL QUANTITATION LIMIT	James & Fisher

MDL = Method Detection Limit

James E. Fisher Laboratory Manager nef



### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

PRACTICAL QUANTITATION LIMIT . . . 1

1,3-DICHLOROBENZENE . . . . . . ND

1,4-DICHLOROBENZENE . . . . . . ND

CHLOROBENZENE . . . . . . . . . . ND

ND = Non Detectable
All results are in ug/L

CLIENT: IPM

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/02/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8532 MW-6A ====================================
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE  CHLOROETHANE 2-CHLOROETHYL VINYL ETHER CHLOROMETHANE DIBROMOCHLOROMETHANE  1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE DICHLORODIFUOROMETHANE  1,1-DICHLOROETHANE  1,2-DICHLOROETHANE  1,2-DICHLOROETHANE  1,2-DICHLOROETHENE c-1,2-DICHLOROETHENE 1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE  t-1,3-DICHLOROPROPANE  t-1,3-DICHLOROPROPANE  1,1,2-TETRACHLOROETHANE  1,1,2-TETRACHLOROETHANE  1,1,1-TRICHLOROETHANE  1,1,1-TRICHLOROETHANE  1,1,1-TRICHLOROETHANE  1,1,2-TRICHLOROETHANE  1,1,2-TRICHLOROETHANE  1,1,2-TRICHLOROETHANE  TRICHLOROETHENE	. ND . ND . ND . ND . ND . ND . ND . ND
TRICHLOROFLUOROMETHANE	ND
ND = Non Detectable All results are in ug/L MDL = Method Detection Limit	James E. Fisher Laboratory Manager nef



# EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM PROJECT: Quarterly DATE SAMPLED: 07/25/91 LAB REF. NO.: 12122 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/06/91 REPORT DATE: 08/13/91 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN 8533 LAB SAMPLE I.D.: CLIENT SAMPLE I.D.: MW-6B BENZENE . . . . . . . . . . . . ND TOLUENE . . . . . . . . . . . . ND ETHYLBENZENE . . . . . . . . . ND XYLENES (Total) . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

CHLOROBENZENE . . . . . . . . . . ND

ND = Non Detectable
All results are in ug/L

Udmes E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/06/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8533 MW-6B ====================================
	. ND
BROMOFORM	
BROMOMETHANE	
CARBON TETRACHLORIDE	
CHLOROBENZENE	. ND
CHLOROETHANE	N.D.
2-CHLOROETHYL VINYL ETHER	
CHLOROMETHANE	
	. ND
DIDNOMO OMEOROME IMAGE	• ND
1,2-DICHLOROBENZENE	. ND
1,3-DICHLOROBENZENE	
1,4-DICHLOROBENZENE	- ND
DICHLORODIFUOROMETHANE	
	. ND
,	
1,2-DICHLOROETHANE	. ND
1,1-DICHLOROETHENE	. ND
c-1,2-DICHLOROETHENE	. ND
t-1,2-DICHLOROETHENE	. ND
1,2-DICHLOROPROPANE	. ND
	. ND
	. ND
	. ND
1,1,2,2-TETRACHLOROETHANE	
TETRACHLOROETHENE	. ND $MDL = 0.3$
1 1 1 00010011 00000111	
	. ND MDL = 0.3
1,1,2-TRICHLOROETHANE	. ND
1,1,1,2-TRICHLOROETHANE	. ND
TRICHLOROETHENE	. ND
TRICHLOROFLUOROMETHANE	. ND
VINYL CHLORIDE	. ND
PRACTICAL QUANTITATION LIMIT	. 1
ND = Non Detectable	$\Lambda$ $\sim$ $\sim$ $7$ $/$
All results are in ug/L	Janua & Frelin
MDL = Method Detection Limit	James E. Fisher Laboratory Manager nef



# EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 07/25/91
LAB REF. NO.: 12122 DATE RECEIVED: 07/26/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 08/06/91
DESCRIPTION: Water Sample REPORT DATE: 08/13/91
ANALYST: PN

PRACTICAL QUANTITATION LIMIT . . . 25

CHLOROBENZENE . . . . . . . . . . . ND

ND = Non Detectable
All results are in ug/L

rames E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/06/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8534 MW-9
	*
BROMODICHLOROMETHANE	. ND
BROMOFORM	ND
BROMOMETHANE	ND
CARBON TETRACHLORIDE	ND
CHLOROBENZENE	ND
CHLOROETHANE	ND
· · · · · · · · · · · · · · · · · · ·	ND
CHLOROFORM	ND
	ND
DIBROMOCHLOROMETHANE	ND
1 2 Prous opopping	<b>1770</b>
1,2-DICHLOROBENZENE	
1,3-DICHLOROBENZENE	. ND
1,4-DICHLOROBENZENE	. ND
1,1-DICHLOROETHANE	ND
I,I-DICHLOROEIHANE	AD
1,2-DICHLOROETHANE	ND
1,1-DICHLOROETHENE	• •
c-1,2-DICHLOROETHENE	. ND
t-1,2-DICHLOROETHENE	ND
1,2-DICHLOROPROPANE	. ND
c-1,3-DICHLOROPROPANE	ND
t-1,3-DICHLOROPROPANE	ND
METHYLENE CHLORIDE	ND
1,1,2,2-TETRACHLOROETHANE	ND
TETRACHLOROETHENE	ND $MDL = 0.3$
	ND $MDL = 0.3$
·	ND
1,1,1,2-TRICHLOROETHANE	
TRICHLOROETHENE	
TRICHLOROFLUOROMETHANE	ND
VINYL CHLORIDE	ND
PRACTICAL QUANTITATION LIMIT	

Sames E. Fisher Laboratory Manager nef

ND = Non Detectable All results are in ug/L MDL = Method Detection Limit



#### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

PROJECT: Quarterly
LAB REF. NO.: 12122
SAMPLED BY: AAL - LDP
DESCRIPTION: Water Sample DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/08/91 REPORT DATE: 08/13/91 ANALYST: PN LAB SAMPLE I.D.: 8535 CLIENT SAMPLE I.D.: MW-12 BENZENE . . . . . . . . . . . . ND TOLUENE . . . . . . . . . . . . ND ETHYLBENZENE . . . . . . . . . ND XYLENES (Total) . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . . ND CHLOROBENZENE . . . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 25

ND = Non Detectable
All results are in ug/L

CLIENT: IPM

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly  LAB REF. NO.: 12122  SAMPLED BY: AAL - LDP  DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/08/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8535 MW-12
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE	ND ND ND ND
CHLOROETHANE  2-CHLOROETHYL VINYL ETHER  CHLOROFORM  CHLOROMETHANE  DIBROMOCHLOROMETHANE	. ND . ND
1,2-DICHLOROBENZENE	. ND . ND . ND
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE	. ND
c-1,3-DICHLOROPROPANE	. ND . ND . ND
1,1,1-TRICHLOROETHANE	. ND MDL = 0.3 . ND . ND . 1500 . ND . ND
PRACTICAL QUANTITATION LIMIT	. 25  James E. Fisher Laboratory Manager nef



# EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 07/25/91
LAB REF. NO.: 12122 DATE RECEIVED: 07/26/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 08/08/91
DESCRIPTION: Water Sample REPORT DATE: 08/13/91
ANALYST: PN

LAB SAMPLE I.D.: 8536
CLIENT SAMPLE I.D.: MW-14A

BENZENE ND
TOLUENE ND
ETHYLBENZENE ND
XYLENES (Total) ND
1,2-DICHLOROBENZENE ND
1,3-DICHLOROBENZENE ND
1,4-DICHLOROBENZENE ND
CHLOROBENZENE ND
PRACTICAL QUANTITATION LIMIT 25

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/08/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8536 MW-14A 
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE  CHLOROETHANE	. ND . ND . ND
2-CHLOROETHYL VINYL ETHER	. ND . ND . ND
1,2-DICHLOROBENZENE	. ND . ND . ND
1,2-DICHLOROETHANE  1,1-DICHLOROETHENE  c-1,2-DICHLOROETHENE  t-1,2-DICHLOROETHENE  1,2-DICHLOROPROPANE	. ND . 64 . ND
C-1,3-DICHLOROPROPANE	ND ND
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	. ND MDL = 0.3 . ND . ND . 15,000 . ND . ND
PRACTICAL QUANTITATION LIMIT  ND = Non Detectable All results are in ug/L MDL = Method Detection Limit	James E. Fisher Laboratory Manager nef



#### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM
PROJECT: Quarterly

LAB REF. NO.: 12122

SAMPLED BY: AAL - LDP
DESCRIPTION: Water Sample
ANALYST: PN

DATE SAMPLED: 07/25/91
DATE RECEIVED: 07/26/91
DATE ANALYZED: 08/06/91
REPORT DATE: 08/13/91

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/06/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8537 MW-14C
BROMODICHLOROMETHANE BROMOFORM	. ND
CHLOROETHANE	. ND . ND
1,2-DICHLOROBENZENE	
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE	. ND . ND
c-1,3-DICHLOROPROPANE	. ND . ND
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	. ND MDL = 0.3 . ND . ND . 620 . ND . ND
PRACTICAL QUANTITATION LIMIT  ND = Non Detectable All results are in ug/L MDL = Method Detection Limit	James E Jahr James E. Fisher Laboratory Manager nef



## EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 07/25/91
LAB REF. NO.: 12122 DATE RECEIVED: 07/26/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 08/06/91
DESCRIPTION: Water Sample REPORT DATE: 08/13/91
ANALYST: PN

LAE SAMPLE I.D.:

CLIENT SAMPLE I.D.:

BENZENE . . . . ND

TOLUENE . . . . . ND

ETHYLBENZENE . . . . ND

XYLENES (Total) . . . . ND

1,2-DICHLOROBENZENE . . . . ND

1,4-DICHLOROBENZENE . . . . . ND

1,4-DICHLOROBENZENE . . . . . . ND

CHLOROBENZENE . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/06/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8538 MW-14D
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE 2-CHLOROETHYL VINYL ETHER CHLOROFORM CHLOROMETHANE	. ND . ND . ND . ND . ND . ND . ND
1,2-DICHLOROBENZENE	. ND . ND . ND . ND
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE c-1,3-DICHLOROPROPANE	. ND . ND . ND
t-1,3-DICHLOROPROPANE	. ND . ND . ND MDL = 0.3
1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUCROMETHANE VINYL CHLORIDE	. ND . ND . 54 . ND
PRACTICAL QUANTITATION LIMIT  ND = Non Detectable All results are in ug/L MDL = Method Detection Limit	. 1  James E. Fisher  Laboratory Manager  hef



## EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

PROJECT: Quarterly DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DATE ANALYZED: 08/02/91 REPORT DATE: 08/13/91 DESCRIPTION: Water Sample ANALYST: PN 8539 LAB SAMPLE I.D.: CLIENT SAMPLE I.D.: MW-16A BENZENE . . . . . . . . . . . . ND TOLUENE . . . . ETHYLBENZENE . . . . . . . . . ND XYLENES (Total) . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . ND CHLOROBENZENE . . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L

CLIENT:

IPM

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/06/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8539 MW-16A
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE	ND ND ND ND
CHLOROETHANE 2-CHLOROETHYL VINYL ETHER CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE	NDND
1,3-DICHLOROBENZENE	. ND
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE	ND ND ND
c-1,3-DICHLOROPROPANE	. ND . ND . ND
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	. ND MDL = 0.3 . ND . ND . ND . ND . ND
PRACTICAL QUANTITATION LIMIT  ND = Non Detectable All results are in ug/L MDL = Method Detection Limit	James E. Fisher Laboratory Manager nef



## EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM

PROJECT: Quarterly

DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/02/91 LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP REPORT DATE: 08/13/91 DESCRIPTION: Water Sample ANALYST: PN LAB SAMPLE I.D.: 8540 CLIENT SAMPLE I.D.: MW-17A BENZENE . . . . . . . . . . . . ND ETHYLBENZENE . . . . . . . . . ND XYLENES (Total) . . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . ND 1,4-DICHLOROBENZENE . . . . . . . ND CHLOROBENZENE . . . . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable All results are in ug/L

Maboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/02/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8540 MW-17A
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHYL VINYL ETHER CHLOROMETHANE 2-CHLOROETHYL VINYL ETHER CHLOROMETHANE DIBROMOCHLOROMETHANE  1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE 1,2-DICHLOROETHENE 1,2-DICHLOROETHENE 1,2-DICHLOROFOPANE 1,2-DICHLOROPROPANE 1,2-DICHLOROPROPANE 1,1,2-TETRACHLOROETHANE 1,1,2-TETRACHLOROETHANE 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1-TRICHLOROETHANE	. ND . ND . ND . ND . ND . ND . ND . ND
PRACTICAL QUANTITATION LIMIT	James E. Fisher Laboratory Manager nef



#### EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 07/25/91
LAB REF. NO.: 12122 DATE RECEIVED: 07/26/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 08/02/91
DESCRIPTION: Water Sample REPORT DATE: 08/13/91
ANALYST: PN

LAB SAMPLE I.D.:

CLIENT SAMPLE I.D.:

BENZENE . . . ND

TOLUENE . . . ND

ETHYLBENZENE . . ND

XYLENES (Total) . . ND

1,2-DICHLOROBENZENE . . ND

1,4-DICHLOROBENZENE . . ND

CHLOROBENZENE . . ND

CHLOROBENZENE . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

	Quarterly 12122 AAL - LDP Water Sample	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/06/91 REPORT DATE: 08/13/91
LAB SAMPLE :	I.D.:	8541 MW-17AR
BROMOMETHANE CARBON TETRACHI CHLOROBENZENE  CHLOROETHANE 2-CHLOROETHYL CHLOROFORM CHLOROMETHANE DIBROMOCHLOROME  1,2-DICHLOROBE 1,3-DICHLOROBE 1,4-DICHLOROBE 1,4-DICHLOROET 1,1-DICHLOROET 1,1-DICHLOROET 1,2-DICHLOROET 1,1-DICHLOROET	VINYL ETHER  VINYL ETHER  ETHANE  NZENE  NZENE  NZENE  OMETHANE  HANE  HANE  HANE	ND ND
c-1,3-DICHLORO t-1,3-DICHLORO METHYLENE CHLO 1,1,2,2-TETRAC TETRACHLOROETH 1,1,1-TRICHLORO 1,1,2-TRICHLORO 1,1,1,2-TRICHL TRICHLOROETHEN TRICHLOROFLUOR VINYL CHLORIDE PRACTICAL QUAN ND = Non A11 resul	PROPANE	ND ND ND ND



# EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT:

ND = Non Detectable All results are in ug/L

LAB REF. No :

IPM PROJECT: Quarterly

12122

SAMPLED BY: AAL - LDP DATE ANALYZED: 08/08/91 DESCRIPTION: Water Sample REPORT DATE: 08/13/91 ANALYST: PN LAB SAMPLE I.D.: 8542 CLIENT SAMPLE I.D.: MW-17B BENZENE . . . . . . . . . . . . ND TOLUENE . . . . . . . . . . . . . . . . ND ETHYLBENZENE . . . . . . . . . ND XYLENES (Total) . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . ND CHLOROBENZENE . . . . . . . . . . ND PRACTICAL QUANTITATION LIMIT . . . 10

Laboratory Manager

DATE SAMPLED: 07/25/91

07/26/91

DATE RECEIVED:



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN		DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/08/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:		8542 MW-17B 
BROMODICHLOROMETHANE BROMOFORM		ND ND ND
CHLOROETHANE		ND ND
1,2-DICHLOROBENZENE		ND ND ND
1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE		. ND 33 ND
c-1,3-DICHLOROPROPANE t-1,3-DICHLOROPROPANE METHYLENE CHLORIDE		ND ND ND ND ND
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE		
PRACTICAL QUANTITATION LIMIT  ND = Non Detectable All results are in ug/1 MDL = Method Detection	L	James E. Fisher
		Laboratory Manager nef



# EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM
PROJECT: Quarterly

LAB REF. NO.: 12122

SAMPLED BY: AAL - LDP
DESCRIPTION: Water Sample
ANALYST: PN

DATE SAMPLED: 07/25/91
DATE RECEIVED: 07/26/91
DATE ANALYZED: 08/08/91
REPORT DATE: 08/13/91

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/08/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8543 MW-18A ====================================
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE  CHLOROETHANE 2-CHLOROETHYL VINYL ETHER CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE	. ND . ND . ND . ND . ND . ND . ND . ND
1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE DICHLORODIFUOROMETHANE 1,1-DICHLOROETHANE 1,2-DICHLOROETHANE	ND ND ND
1,1-DICHLOROETHENE	ND 470 ND ND
c-1,3-DICHLOROPROPANE	. ND . ND . ND
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	. ND MDL = 0.3 . ND . ND . 15,000 . ND . ND
PRACTICAL QUANTITATION LIMIT	James E. Fisher Laboratory Manager hef



## EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 07/25/91
LAB REF. NO.: 12122 DATE RECEIVED: 07/26/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 08/08/91
DESCRIPTION: Water Sample REPORT DATE: 08/13/91
ANALYST: PN

LAB SAMPLE CLIENT SAMPLE			8544 W-18B
BANZENE			ND
	IZENE		
	(Total)		
1,2-DICE	HLOROBENZENE	• • • • •	ND
1,3-DICE	HLOROBENZENE		ND
1,4-DICE	HLOROBENZENE		ND
CHLOROBE	ENZENE		ND
PRACTICA	AL QUANTITATION LIM	AIT	100

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM

PROJECT: Quarterly  LAB REF. NO.: 12122  SAMPLED BY: AAL - LDP  DESCRIPTION: Water Sample  ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/08/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8544 MW-18B
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE	ND ND ND
CHLOROETHANE 2-CHLOROETHYL VINYL ETHER CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE	ND
1,2-DICHLOROBENZENE	ND ND ND
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE	ND ND
c-1,3-DICHLOROPROPANE	ND ND
1,1,1-TRICHLOROETHANE	ND ND

ND = Non Detectable All results are in ug/L MDL = Method Detection Limit

VINYL CHLORIDE . . . . . . . . . . . . ND PRACTICAL QUANTITATION LIMIT . . . . . . 100

Laboratory Manager



## EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM
PROJECT: Quarterly
LAB REF. No.: 12122
SAMPLED BY: AAL - LDP
DESCRIPTION: Water Sample
ANALYST: PN
DATE SAMPLED: 07/25/91
DATE RECEIVED: 07/26/91
DATE ANALYZED: 08/06/91
REPORT DATE: 08/13/91

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly  LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/06/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8545 MW-20A
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE  CHLOROETHANE 2-CHLOROETHYL VINYL ETHER CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE  1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,1-DICHLOROETHANE 1,1-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE t-1,2-DICHLOROFOPANE  1,2-DICHLOROPROPANE  1,2-DICHLOROFOPANE  1,2-TICHLOROFOPANE  1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1-TRICHLOROETHANE 1,1-TRICHLOR	. ND . ND . ND . ND . ND . ND . ND . ND
ND = Non Detectable All results are in ug/L MDL = Method Detection Limit	James E. Fisher Laboratory Manager nef



# EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

PROJECT: Quarterly DATE SAMPLED: 07/25/91 LAB REF. NO.: 12122 DATE RECEIVED: 07/26/91 SAMPLED BY: AAL - LDP DATE ANALYZED: 08/06/91 DESCRIPTION: Water Sample REPORT DATE: 08/13/91 ANALYST: PN LAB SAMPLE I.D.: 8546 CLIENT SAMPLE I.D.: MW-20B BENZENE . . . . . . . . . . . . ND TOLUENE . . . . . . . . . . . . ND ETHYLBENZENE . . . . . . . . . ND XYLENES (Total) . . . . . . . . ND 1,2-DICHLOROBENZENE . . . . . . ND 1,3-DICHLOROBENZENE . . . . . . ND 1,4-DICHLOROBENZENE . . . . . . ND

CHLOROBENZENE . . . . . . . . . . ND

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable All results are in ug/L

CLIENT: IPM

James E. Fisher Vaboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

LAB SAMPLE I.D.:  CLIENT SAMPLE I.D.:  MW-20B  BROMODICHLOROMETHANE  BROMOFTANE  ND  BROMOSTANE  ND  CARBON TETRACHLORIDE  CHLOROBENZENE  ND  CHLOROETHANE  ND  CHLOROFTHANE  ND  CHLOROMETHANE  ND  CHLOROMETHANE  ND  DIEROMOCHLOROMETHANE  ND  1,2-DICHLOROBENZENE  ND  1,4-DICHLOROBENZENE  ND  1,4-DICHLOROBENZENE  ND  1,4-DICHLOROBENZENE  ND  1,1-DICHLOROBENZENE  ND  1,1-DICHLOROBENZENE  ND  1,1-DICHLOROBETHANE  ND  1,2-DICHLOROBETHANE  ND  1,2-DICHLOROBETHANE  ND  1,2-DICHLOROBETHANE  ND  1,2-DICHLOROBETHENE  ND  1,2-DICHLOROBETHENE  ND  1,2-DICHLOROPROPANE  ND  1,2-DICHLOROPROPANE  ND  1,2-DICHLOROPROPANE  ND  1,2-C-TETRACHLOROBETHANE  ND  TTICHLOROBETHANE  ND  TARGET AND AND AND AND AND AND AND AND AND AND	CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/06/91 REPORT DATE: 08/13/91
BROMOFORM.  BROMOMETHANE  CARBON TETRACHLORIDE  CHLOROBENZENE  CHLOROETHANE  CHLOROETHANE  CHLOROETHYL VINYL ETHER  ND  CHLOROMETHANE  ND  CHLOROMETHANE  ND  DIBROMOCHLOROMETHANE  ND  1,2-DICHLOROBENZENE  ND  1,3-DICHLOROBENZENE  ND  1,4-DICHLOROBENZENE  ND  1,1-DICHLOROBENZENE  ND  1,1-DICHLOROETHANE  ND  1,2-DICHLOROETHANE  ND  1,2-DICHLOROETHANE  ND  1,2-DICHLOROETHENE  ND  1,2-DICHLOROETHENE  ND  1,2-DICHLOROETHENE  ND  C-1,2-DICHLOROETHENE  ND  C-1,2-DICHLOROPROPANE  ND  C-1,3-DICHLOROPROPANE  ND  C-1,3-DICHLOROPROPANE  ND  C-1,3-DICHLOROPROPANE  ND  1,1,2-TEICHLOROPROPANE  ND  1,1,2-TEICHLOROPROPANE  ND  1,1,2-TEICHLOROETHANE  ND  TETRACHLOROETHENE  ND  1,1,2-TRICHLOROETHANE  ND  TRICHLOROETHENE  ND  TRICHLOROFLUOROMETHANE  ND  TRICHLOROMETHANE  ND  TRICHLOROMETHANE  ND  TRICHLOROMETHANE  ND  TRICHLOROMETHANE	CLIENT SAMPLE I.D.:	MW-20B
METHYLENE CHLORIDE	BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE  CHLOROETHANE 2-CHLOROETHYL VINYL ETHER CHLOROFORM CHLOROMETHANE DIBROMOCHLOROMETHANE  1,2-DICHLOROBENZENE 1,3-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,4-DICHLOROBENZENE 1,1-DICHLOROETHANE  1,2-DICHLOROETHANE  1,1-DICHLOROETHANE  1,2-DICHLOROETHANE  1,2-DICHLOROETHENE  1,1-DICHLOROETHENE  1,1-DICHLOROETHENE  1,2-DICHLOROETHENE  1,2-DICHLOROETHENE  1,2-DICHLOROETHENE	. ND . ND . ND . ND . ND . ND . ND . ND
TRICHLOROETHENE	t-1,3-DICHLOROPROPANE	. ND MDL = 0.3 ND MDL = 0.3 ND
	TRICHLOROETHENE	James E Fisher



## EPA 8020 VOLATILE AROMATIC HYDROCARBONS SCAN

CLIENT: IPM
PROJECT: Quarterly DATE SAMPLED: 07/25/91
LAB REF. NO.: 12122 DATE RECEIVED: 07/26/91
SAMPLED BY: AAL - LDP DATE ANALYZED: 08/06/91
DESCRIPTION: Water Sample REPORT DATE: 08/13/91
ANALYST: PN

PRACTICAL QUANTITATION LIMIT . . . 1

ND = Non Detectable
All results are in ug/L

James E. Fisher Laboratory Manager



# EPA 8010 HALOGENATED VOLATILE ORGANICS

CLIENT: IPM PROJECT: Quarterly LAB REF. NO.: 12122 SAMPLED BY: AAL - LDP DESCRIPTION: Water Sample ANALYST: PN	DATE SAMPLED: 07/25/91 DATE RECEIVED: 07/26/91 DATE ANALYZED: 08/06/91 REPORT DATE: 08/13/91
LAB SAMPLE I.D.: CLIENT SAMPLE I.D.:	8547 MW-22A
BROMODICHLOROMETHANE BROMOFORM BROMOMETHANE CARBON TETRACHLORIDE CHLOROBENZENE CHLOROETHANE 2-CHLOROETHYL VINYL ETHER	. ND . ND . ND . ND
CHLOROFORM	. ND . ND
1,2-DICHLOROBENZENE	. ND . ND . ND
1,2-DICHLOROETHANE 1,1-DICHLOROETHENE c-1,2-DICHLOROETHENE t-1,2-DICHLOROETHENE 1,2-DICHLOROPROPANE	. ND
c-1,3-DICHLOROPROPANE	. ND . ND . ND
1,1,1-TRICHLOROETHANE 1,1,2-TRICHLOROETHANE 1,1,1,2-TRICHLOROETHANE TRICHLOROETHENE TRICHLOROFLUOROMETHANE VINYL CHLORIDE	. ND MDL = 0.3 . ND . ND . ND . 6 . ND . ND
PRACTICAL QUANTITATION LIMIT	1 7 7 1
All results are in ug/L MDL = Method Detection Limit	James E. Fisher Laboratory Manager

Laboratory Manager

# APPENDIX 5 STATIC WATER LEVELS

July 1991 Static Water Levels

IPM

		Ground	Casing	Water Depth	Static Water
		Elevation	Elevation	July, 24, 1991	Elevation
N #N # /	4	040.40	050.00	10.05	000.40
MW	1	649.42	652.38	18.95	633.43
MW	2	649.67	652.55	18.06	634.49
MW	4A	649.22	651.78	27.64	624.14
MW	4B	649.07	651.91	18.55	633.36
MW	5A	648.45	648.54	19.57	628.97
MW	5B	648.47	648.34	14.75	633.59
MW	6A	648.92	651.91	27.16	624.75
MW	6B	648.99	652.04	17.30	634.74
MW	9	649.73	649.52	16. <b>8</b> 2	632.70
MW	12	649.76	649.61	9.24	640.37
MW	14A	646.03	648.40	24.46	623.94
MW	14C	643.74	645.28	25.89	619.39
MW	14D	643.06	644.80	40.06	604.74
MW	16A	649. <b>58</b>	652.13	27.89	624.24
MW	17A	647.49	649.31	24.63	624.68
MW	17B	646. <b>8</b> 6	648.77	16.34	632.43
MW	18A	649.18	648.86	26.16	622.70
MW	18B	649.22	648.56	9.57	638.99
MW	20A	648.89	648.61	24.02	624.59
MW	20B	648.82	648.04	14.74	633.30
MW	22A	649.83	648.98	19.96	629.02



# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 North Grand Avenue East, P.O. Box 19276, Springfield, Illinois 62794-9276 – (217) 782-3397 James R. Thompson Center, 100 West Randolph, Suite 11-300, Chicago, IL 60601 – (312) 814-6026

ROD R. BLAGOIEVICH, GOVERNOR

Douglas P. Scott, Director

April 9, 2009

The Dyson-Kissner-Moran Corporation Attn: Robert Farley 565 Fifth Avenue, Fourth Floor New York, NY 10017

Certified Mail #7004 2510 0001 8622 3799 Return Receipt Requested

Re: 0310635072 - Cook County

Kearney National ILD085352474 Financial File

Dear Mr. Farley,

The Illinois Environmental Protection Agency (Agency) has been notified that Bank of America (BOA) will not be renewing the BOA Letter of Credit No. 3064165 (LOC #3064165). LOC #3064165 will be expiring on July 7, 2009.

If an alternate financial assurance mechanism in the amount of \$233,000.00 is not received by **June 8, 2009**, then the Agency will be forced to draw Letter of Credit No. 3064165 pursuant to 35 Ill. Adm. Code 725.243(c)(9).

The Agency has also been notified that Bank of America (BOA) will not be renewing the BOA Letter of Credit No. 3065547 (LOC #3065547). LOC #3065547 will be expiring on September 10, 2009.

If an alternate financial assurance mechanism in the amount of \$2,000,000.00 is not received by August 11, 2009, then the Agency will be forced to draw Letter of Credit No. 3065547.

If you have any questions, please contact me at 217-785-7403 or by E-mail at Robert.Mathis@illinois.gov.

Sincerely,

Robert Mathis, Jr.

Compliance Unit - Financial Assurance

Bureau of Land

CC: USEPA Region Five

Robert Matte

A.T. Kearney, Inc.
One Lagoon Drive
Redwood City, California 94065
415 595 4300
Facsimile 415 595 5659

Management Consultants

NOV 30 1992

OFFICE OF RCRA

ATKBARVEY

November 25, 1992

Mr. Bernie Orenstein
Regional Project Officer
U.S. Environmental Protection Agency
Region V
77 West Jackson Street
Chicago, Illinois 60604

Reference:

EPA Contract No. 68-W9-0040; Work Assignment No. R05-27-01; Technical Review of Financial Records for Kearney-National, Inc.; EPA I.D. No. ILD 085352474; Revised Final Deliverable (Task 03)

Dear Mr. Orenstein:

Enclosed please find the revised final deliverable containing the results of our technical review of the Kearney-National, Inc. financial records which was completed in accordance with the above-referenced work assignment. This revised final deliverable incorporates changes in the Liability Coverage section of the review which were requested by the U.S. EPA WAM and the State of Illinois.

Please do not hesitate to call me or Carrie Ericson, the Kearney Team Work Assignment Manager (who can be reached at 312/993-8736), if you have any questions.

Sincerely,

Monica B. Roll

Technical Director

cc: Z. Thomas, EPA Region V

H. Wright, IEPA

W. Jordan

A. Anderson

L. Poe

C. Ericson

L. Sherman

B. Smith

E. Theios, IND

Financial Record Review
Revised
General Comments/Deficiencies
for
Liability Coverage
for Kearney-National, Inc.
Des Plaines, Illinois
EPA I.D. No. ILD 085 352 474

#### LIABILITY COVERAGE REVIEW

Liability insurance coverage in the amount of \$4,000,000 per occurrence and \$8,000,000 annual aggregate for sudden and non-sudden accidental occurrence is required for this facility. The facility provided liability coverage in the form of the Corporate Guarantee (see Table III).

TABLE III - INSURANCE MECHANISMS

	Sudden Occurr.	Non- Sudden Occurr.	Total Cover. Reqd.	Total Cover. Prvd.
Per Occurrence	1,000,000	3,000,000	4,000,000	4,000,000
Annual Aggregate	2,000,000	6,000,000	8,000,000	8,000,000

One deficiency was identified for this mechanism:

#### <u>Deficiency</u>

The facility failed to provide proof of Guarantee for Liability Coverage on the required IEPA form (LPC 271) as required by 35 Illinois Administrative Code 725.247.

# Proposed Action

Provide proof of Guarantee for Liability Coverage on the required IEPA form (LPC 271).

A.4.5

A.T. Kearney, Inc. One Lagoon Drive Redwood City, California 94065 415 595 4300 Facsimile 415 595 5659 Management Consultants

TO DOT 5 1992

ATKEARNEY

October 14, 1992

Mr. Bernie Orenstein
Regional Project Officer
U.S. Environmental Protection Agency
Region V, HRM-76
77 West Jackson Street
Chicago, Illinois 60604

Reference:

EPA Contract No. 68-W9-0040; Work Assignment No. R05-27-01; Technical Review of Financial Records for Kearney-National, Inc.; EPA I.D. No. ILD 085352474; Revised Final Deliverable (Task 03)

Dear Mr. Orenstein:

Enclosed please find the revised final deliverable containing the results of our technical review of the Kearney-National, Inc. financial records which was completed in accordance with the above-referenced work assignment. The revised final deliverable incorporates the changes requested by the U.S. EPA WAM and the State of Illinois.

Please do not hesitate to call me or Carrie Ericson, the Kearney Team Work Assignment Manager (who can be reached at 312/ 993-8736), if you have any questions.

Sincerely,

Monica B. Roll

Technical Director

cc: Z. Thomas, EPA Region V

H. Wright, IEPA

W. Jordan

L. Poe

C. Ericson

L. Sherman (w/o attachment)

B. Smith (w/o attachment)

E. Theios, IND

# REVISED FINAL DELIVERABLE (TASK 03)

TECHNICAL REVIEW OF FINANCIAL RECORDS for KEARNEY-NATIONAL, INC., DES PLAINES, ILLINOIS EPA I.D. No. ILD 085 352 474

#### Prepared for:

Mr. Bernie Orenstein U.S. EPA Regional Project Officer Region V, HRM-76 77 West Jackson Street Chicago, Illinois 60604

#### Prepared by:

A.T. Kearney, Inc. 222 S. Riverside Plaza Chicago, Illinois 60606

In response to:

EPA Contract No. 68-W9-0040 Work Assignment No. R05-27-01

October 14, 1992

# Financial Record Review General Comments/Deficiencies for

Kearney-National, Inc., Des Plaines, Illinois EPA I.D. No. ILD 085 352 474

#### GENERAL COMMENTS

The Closure/Post-Closure Plan cost estimates were approved by the IEPA on May 15, 1992. Therefore the associated cost estimates were not reviewed in this analysis. Many of the required elements for financial assurance and liability insurance are satisfactorily addressed in the facility's submissions; however, a number of deficiencies remain. These deficiencies are included in the following analysis.

#### BRIEF FACILITY SUMMARY

Kearney-National, Inc. was formerly a small quantity generator storing wastes for greater than 180 days. The facility contains two RCRA regulated units, a storage tank and a container storage unit which was created during closure of the storage tank. The facility is currently attempting clean-closure of the storage tank utilizing vapor extraction over a period of time. If it is not successful in achieving clean-closure of the unit, the facility will close the storage tank as a landfill with post-closure care. The facility is in the process of closing the container storage unit.

The IEPA files contain a number of closure plans for the storage tank with the latest IEPA approved closure plan dated May 15, 1992. Financial Assurance in the form of the Financial Test and Corporate Guarantee by the parent company, DKM Corp., was received on June 10, 1992. The approved closure plan was withdrawn on July 10, 1992 and resubmitted on September 1, 1992 as a contingent plan for closure as a landfill with post-closure care. No changes to the closure/post-closure care cost estimates previously approved in the May 15, 1992 plan were made in the resubmitted contingent plan. The contingent plan is currently pending Agency approval.

The facility submitted cost estimates for extended clean closure (\$1,504,000) of the storage tank, as well as contingent cost estimates for closure as a landfill including post-closure care costs (\$1,801,000). Financial assurance submitted by the facility for this unit is insufficient (please see Financial Instrument Review Section).

During closure of the storage tank, the facility inadvertently (by storing wastes for greater than 90 days) created a RCRA-regulated container storage area. A partial closure plan for this container storage unit was approved by IEPA on April 23,

1992. An initial closure cost estimate was submitted at that time. The closure plan was modified on September 16, 1992. A revised closure cost estimate and corresponding financial assurance is scheduled for submittal by October 30, 1992.

TABLE I - ASSURANCE MECHANISMS

Closure	Post-	Total	Total	Financial
Cost	Closure	Cost	Cost	Assurance
Est.	Cost Est.	Est.	Provided	Mechanism
91,000	1,710,000	1,801,000	979,316	Financial Test Corporate Guarantee

TABLE II - INSURANCE MECHANISMS

Liability	Liability	Liability Coverage Financial Assurance Mechanism
8,000,000	8,000,000	Corporate Guarantee

#### CLOSURE PLAN COST ESTIMATE REVIEW

Closure Plan cost estimates of \$91,000 (see Table I) for the storage tank were approved by the IEPA on May 15, 1992. Although the Closure Plan was withdrawn on June 10, 1992, it was resubmitted as the Contingent Closure Plan on September 1, 1992 with no changes to the closure care costs. It is assumed that the IEPA will approve the resubmitted plan as its closure care costs are identical to the previously approved plans'.

Revised Closure Plan cost estimates for the container storage area have not yet been submitted, therefore no review was conducted.

#### POST-CLOSURE PLAN COST ESTIMATE REVIEW

Post-Closure Plan cost estimates of \$1,710,000 (see Table I) for the storage tank were approved by the IEPA on May 15, 1992. Although the Post-Closure Plan was withdrawn on June 10, 1992, it was resubmitted as the Contingent Post-Closure plan on September 1, 1992 with no changes to the post-closure care costs. It is assumed that the IEPA will approve the resubmitted plan as its post-closure care costs are identical to the previously approved plans'.

The Closure Plan for the container storage unit provides for clean closure of the unit, therefore no Post-Closure Plan will be required.

#### FINANCIAL INSTRUMENT REVIEW

The facility provided financial assurance for Contingent Closure/Post-Closure Plan cost estimates through the use of the Financial Test and the Corporate Guarantee (see Table I). A number of deficiencies were identified for these mechanisms:

#### <u>Deficiency</u>

The facility failed to provide the proper language in its Letter From the Chief Financial Officer to demonstrate liability coverage and assurance of closure and post-closure care as required by 35 Illinois Administrative Code 724.251. Section 5 of the letter currently states "This firm is not to file...". The correct language is "This firm is not required to file...". Additionally, in Sections 1 and 4, the Letter should specify the word "None" in the paragraphs which do not apply to the firm's facilities.

#### Proposed Action

Provide a Letter From the Chief Financial Officer to demonstrate liability coverage and assurance of closure and post-closure care with the proper corrected language.

#### Deficiency

The facility failed to provide sufficient financial assurance for contingent post-closure care cost estimates as required by 35 Illinois Administrative Code 725.245. Contingent post-closure care cost estimates are \$1,710,000. Financial assurance for contingent post-closure care is provided in the amount of \$888,316 only.

#### Proposed Action

Provide increased financial assurance for contingent postclosure care in the amount of \$821,684 so that the total financial assurance provided is \$1,710,000.

#### <u>Deficiency</u>

The facility failed to demonstrate evidence of tangible net worth in excess of six times the sum of the current closure and post-closure cost estimates as required by 35 Illinois

Administrative Code 725.245(e)(1). As a result, it failed the financial test (Alternative 1) for closure and post-closure.

#### Proposed Action

Demonstrate that the firm's tangible net worth is in excess of six times the sum of the current closure and post-closure cost estimates, or provide an alternate financial assurance mechanism.

#### Deficiency

The facility failed to provide an explanation for the independent public accountant's qualified opinion with respect to non-consolidation of certain majority-owned subsidiaries as required by 35 Illinois Administrative Code 724.245(e)(8).

#### Proposed Action

Provide an explanation as to why the independent public accountant's qualified opinion should not be grounds for disqualification for the financial test mechanism.

# <u>Deficiency</u>

The facility failed to provide the Corporate Guarantee for Closure/Post-Closure Care on the required IEPA form (LPC 155) as required by 35 Illinois Administrative Code 725.245(e)(11).

#### Proposed Action

Provide the Corporate Guarantee for Closure/ Post-Closure Care on the required IEPA form (LPC 155).

#### LIABILITY COVERAGE REVIEW

The facility provided Annual Aggregate Liability Coverage in the amount of \$8,000,000 on June 10, 1992 through the use of the Corporate Guarantee (see Table II). One deficiency was identified for this mechanism:

#### Deficiency

The facility failed to provide proof of Guarantee for Liability Coverage on the required IEPA form (LPC 271) as required by 35 Illinois Administrative Code 725.247.

#### Proposed Action

Provide proof of Guarantee for Liability Coverage on the required IEPA form (LPC 271).

#### ANNUAL UPDATES

The Closure/Post-Closure Care Estimates were approved in 1992. The Contingent Closure/Post-Closure Care Estimates currently pending Agency approval are identical to the 1992 submission. Therefore, there are currently no annual updates to review.

#### **ATTACHMENTS**

Attachment A - Facility Checklist

Attachment B - Liability Checklist/Financial Test Attachment C - Guarantor Checklist/Financial Test

# Attachment A FACILITY CHECKLIST

	DISCOUL CONTON				
	DYSON - KISSNER - Z30 PARK AVE. N		The second secon		
	sure cost: \$ 91,000			518	192
nated nos	t-closure cost: \$ 1,710,000	つ Date	of estimate:	5 18	192
	adjustment factor:	<u> </u>			
	ed closure and post-closure costs: \$	1,801,000	) La	st adjusted	518192
	1 Assurance Mechanisms		Date Received:		
			Amount of	Yalidatio	n
hanism	Guarantor Name & Address	Effective Date	Coverage	Date	Initials
		1 1	0-10 211		
1	DYSON-KISSNER-MORAN				
				//	
			979,316	(\$1,80	
<u>Liabili</u> chanism	ty Coverage Mechanisms Guarantor Name		979,316  Date Received  Amount of	(\$1,80	
		Total Coverage \$  Effective Date	979,316  Date Received  Amount of Coverage	(\$1,801 :/ Validat Date /_/	ion Initials
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hanism	Guarantor Name	Total Coverage \$  Effective Date /// 6/15792	979,316  Date Received  Amount of Coverage	(\$1,801 :/ Validat Date / / 91:5192 / /	ion Initials  EPT
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chanism , j.	Guarantor Name	Effective Date	979,316  Date Received  Amount of Coverage \$ \$8.044	(\$1,801 :/ Validat Date/_//_//_/	ion Initials  EPT
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FDLLOW-I	Guarantor Name  Dyson-Kissner-Honan  UP ACTIONS REQUIRED  cost estimates (9D days after anniver)	Effective Date // /////////////////////////////////	979,316  Date Received  Amount of Coverage \$ 8.044  8,000,000	(\$1,801  Yalidat Date  1	ion Initials  FPT

# Attachment B

# LIABILITY CHECKLIST/FINANCIAL TEST

Owner or Ope	rator: <u>KEARNE</u>	Y- NATIONAL	INC (IM +	<u>P Co)</u> Reviewed	by: EPT	-	
Address: 210 W. OALTON, DES PLAINES IL 60017 Date: 9/15/92							•
Chief financial officer: ( $\chi$ ) Annual report ( ) Form 10-K ( $\chi$ ) Letter wording & signatures							
Certified pu	blic accountant: (X)	AICPA ( ) State 0	PA society (	) Other:			
Accountant's	opinion: Date <u>5</u> /	26/92 ()	inqualified	(X) Qualified ( )	Adverse ( )	Disclaimer	
Accountant's	special report: Dat	e 6 15 19	<u> </u>	st fiscal year $  (\! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	Confirms (	CFD	
		FACILITIES COVERE	D BY FINANCIA	AL TEST			
						PROVIDED	REQ'I
Facility	Annual Aggregate	Closure		Post-Closure		Total Cost	TOTAL (E)
EPA ID #	Liability Coverage	Current Estimate	·	Current Estimate	Coverage	Coverage	COVERME
400 200 11711	\$ 8,000,000	21 - 20	\$	7	A	<b>3</b>	
085 352 474	4 0,000,000	91,000	91,000	1,710,000	888,316	979, 316	1,801,000
A(A)(30, 7)(5)							21754,138
918 429 715	11				2,754,138	2,754,138	012411
674 157 160	[1						
076 655 182	,				2,390,720	2,390,720	2,390,720
<b>——</b>		-	·				
					<b>!</b>		
	<u> </u>					<u> </u>	1 = x= 0c0
	coverage			\$ 1,710,000	\$6,033,174	\$6,124,174	
	nual aggregate liabil					8,000,000	<del> </del>
	rage required for fina					\$14,174,174	14,946)
Financial Te	est: Fiscal Year	$\frac{1}{m}$ $\frac{192}{y}$ $(X)$	Alternative l (Ratio Test)	( ) Alternative (Bond rative	PII 1 <b>a</b> )		<del></del> -
					NET	MORKING	
FOLLDW-UP AC	CTIONS REQUIRED			DATE REQU		= 88,305	•
Annual revie	ew (90 days after end	of fiscal year)		<u>4/30</u>	193 VA	HICH IS <	•
COMPLIANC	E LETTER FOR	DEFICIENCIES	IN F.A.	/	<u>/</u>		( <b>6</b> 9,616,66
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	PROVIDED. FINA		_	'			
SUBSIDIAL	TEST; ACCOUNTANT	<u>OPINION 15 (</u> CORP. GUARAN					
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# Attachment C

# GUARANTOR CHECKLIST/FINANCIAL TEST

Guarantor company: <u>DYSON</u>	-KISSNER-MO	RAU CORP Reviewed	by: EPT			
Address: 230 Park Ai	re. New Yo	ork, Ny	Date: 9 / 15/92			
Chief Financial Officer: (🔾) An						
Certified Public Accountant: (>	AICPA ( ) State CP	A Society ( ) Other:				
Accountant's Opinion: Date5	. 126192() Unqu	alified (Ⅺ Qualified (	) Adverse ( ) Disclaimer			
Accountant's Special Report: D	ate 6/15/92	?_ (Ⅺ Latest Fiscal Year	(×) Confirms CFO			
Owner or operator: KEARN	GY-NATIONAL L	ux. (IM &PCO)	160 050 353 421			
Affiliation: ( ) Same Comp	any 🔀 Subsidiary, o	ver 50% owned ( ) Other:				
Corporate Guarantee: Date:	/ / ( ) W		( ) Not required			
Facility	Current Cost	Estimates	Total			
EPA ID #	Closure	Post-Closure	Cost			
ILD 085 352 747	\$ 91,000	\$ 1,710,000	\$ 1,801,000			
CAD 891 429 715		2, 154,138	2,754,138			
WAD 076 655 182	-	2,390,720	2, 390, 720			
TOTAL	\$ 91,000	\$ 6,854,858	\$ 6,945,858			
Financial test: Fiscal year _	1 / 3/ (X)	Alternative I ( ) Alternative I ( ) Alternative I ( ) Alternation (Bond-	native II rating)			
FDLLOW-UP ACTIONS REQUIRED		DA	ATE REQUIRED			
Annual review (90 days after e	end of fiscal year)	<u>, , , , , , , , , , , , , , , , , , , </u>	Y 130190			
COMPLIANCE letter y	COMPLIANCE letter for deficiencies in F.A. 11					
Comments: FINALCIAL ASSE	URANCE For post	closure care is	SHORT by \$ B21,689			
FORUS for Cornorate Guar	rautee for closus	re, PCC and liabil	ity were not provided.			
ACCOUNTANTE ODINION	QUALIFIED WILL	respect to NON-CO	DUSOKIDATED, was subsidierier.			
Attachments: (➤ Letter From ( ) Corporate G ( ➤ Accountant'		er PROUIDED				

Management Consultants

ATKEARNEY

September 28, 1992

Mr. Bernie Orenstein
Regional Project Officer
U.S. Environmental Protection Agency
Region V
77 West Jackson Street
Chicago, Illinois 60604

Reference:

EPA Contract No. 68-W9-0040; Work Assignment No. R05-27-01; Technical Review of Financial Records for Kearney-National, Inc.; EPA I.D. No. ILD 085352474; Final Deliverable (Task 03)

Dear Mr. Orenstein:

Enclosed please find the technical review of the Kearney-National, Inc. financial records which was completed in accordance with the above-referenced work assignment. Please note that per the IEPA's request, the review of the financial records for Kearney-National, Inc. was completed in place of the review for GMC Central Foundry (I.D. No. ILD005141551).

Overall, many of the required elements for financial assurance and liability insurance have been satisfactorily addressed by the facility; however, a number of deficiencies remain. Most importantly, post-closure care cost estimates were revised (increased) by the facility without updating the financial mechanisms employed. As a result, the facility fails the financial test (Alternative 1) and it is therefore not a viable mechanism. These deficiencies are included in the attached report.

Additionally, a container storage area was created during the closure of the underground storage tank at the facility. The facility submitted a closure plan for this unit which was approved by the IEPA on April 23, 1992. The facility submitted a modified closure plan for the unit on September 16, 1992. Revised closure cost estimates and financial assurance mechanisms are due to be submitted to the IEPA by October 30, 1992. To date, no financial assurance has been submitted for this unit.

Please do not hesitate to call me or Carrie Ericson, the Kearney Team Work Assignment Manager (who can be reached at  $312/\ 993-8736$ ), if you have any questions.

Sincerely,

Monica B. Roll Technical Director

cc: Z. Thomas, EPA Region V

H. Wright, IEPA

C. Ericson

W. Jordan

L. Poe

E. Theios, IND

J. Drieth

# FINAL DELIVERABLE (TASK 03)

TECHNICAL REVIEW OF FINANCIAL RECORDS for KEARNEY-NATIONAL, INC., DES PLAINES, ILLINOIS EPA I.D. No. ILD 085 352 474

# Prepared for:

Mr. Bernie Orenstein
U.S. EPA
Regional Project Officer
Region V
77 West Jackson Street
Chicago, Illinois 60604

### Prepared by:

A.T. Kearney, Inc. 222 S. Riverside Plaza Chicago, Illinois 60606

In response to:

EPA Contract No. 68-W9-0040 Work Assignment No. RO5-27-01

September 28, 1992

# Financial Record Review General Comments/Deficiencies for

Kearney-National, Inc., Des Plaines, Illinois EPA I.D. No. ILD 085 352 474

#### GENERAL COMMENTS

The Closure/Post-Closure Plan cost estimates were approved by the IEPA on May 15, 1992. Therefore the associated cost estimates were not reviewed in this analysis. Many of the required elements for financial assurance and liability insurance are satisfactorily addressed in the facility's submissions; however, a number of deficiencies remain. These deficiencies are included in the following analysis.

#### BRIEF FACILITY SUMMARY

Kearney-National, Inc. was formerly a small quantity generator storing wastes for greater than 180 days. The facility contains two RCRA regulated units, a storage tank and a container storage unit which was created during closure of the storage tank. The facility is currently attempting clean-closure of the storage tank utilizing vapor extraction over a period of time. If it is not successful in achieving clean-closure of the unit, the facility will close the storage tank as a landfill with post-closure care. The facility is in the process of closing the container storage unit.

The IEPA files contain a number of closure plans for the storage tank with the latest IEPA approved closure plan dated May 15, 1992. Financial Assurance in the form of the Financial Test and Corporate Guarantee by the parent company, DKM Corp., was received on June 10, 1992. The approved closure plan was withdrawn on July 10, 1992 and resubmitted on September 1, 1992 as a contingent plan for closure as a landfill with post-closure care. No changes to the closure/post-closure care cost estimates previously approved in the May 15, 1992 plan were made in the resubmitted contingent plan. The contingent plan is currently pending Agency approval.

The facility submitted cost estimates for extended clean closure (\$1,504,000) of the storage tank, as well as contingent cost estimates for closure as a landfill including post-closure care costs (\$1,801,000). Financial assurance submitted by the facility for this unit is insufficient (please see Financial Instrument Review Section).

During closure of the storage tank, the facility inadvertently (by storing wastes for greater than 90 days) created a RCRA-regulated container storage area. A partial closure plan for this container storage unit was approved by IEPA on April 23, 1992. An initial closure cost estimate was submitted at that

time. The closure plan was modified on September 16, 1992. A revised closure cost estimate and corresponding financial assurance is scheduled for submittal by October 30, 1992.

TABLE I - ASSURANCE MECHANISMS

Closure	Post-	Total	Total	Financial
Cost	Closure	Cost	Cost	Assurance
Est.	Cost Est.	Est.	Provided	Mechanism
91,000	1,710,000	1,801,000	979,316	Financial Test Corporate Guarantee

TABLE II - INSURANCE MECHANISMS

Annual Aggregate Liability Coverage Required	Liability	Liability Coverage Financial Assurance Mechanism
8,000,000	8,000,000	Corporate Guarantee

#### CLOSURE PLAN COST ESTIMATE REVIEW

Closure Plan cost estimates of \$91,000 (see Table 1) for the storage tank were approved by the IEPA on May 15, 1992. Although the Closure Plan was withdrawn on June 10, 1992, it was resubmitted as the Contingent Closure Plan on September 1, 1992 with no changes to the closure care costs. It is assumed that the IEPA will approve the resubmitted plan as its closure care costs are identical to the previously approved plans'.

Revised Closure Plan cost estimates for the container storage area have not yet been submitted, therefore no review was conducted.

#### POST-CLOSURE PLAN COST ESTIMATE REVIEW

Post-Closure Plan cost estimates of \$1,710,000 (see Table 1) for the storage tank were approved by the IEPA on May 15, 1992. Although the Post-Closure Plan was withdrawn on June 10, 1992, it was resubmitted as the Contingent Post-Closure plan on September 1, 1992 with no changes to the post-closure care costs. It is assumed that the IEPA will approve the resubmitted plan as its post-closure care costs are identical to the previously approved plans'.

The Closure Plan for the container storage unit provides for clean closure of the unit, therefore no Post-Closure Plan will be required.

#### FINANCIAL INSTRUMENT REVIEW

The facility provided financial assurance for Contingent Closure/Post-Closure Plan cost estimates through the use of the Financial Test and the Corporate Guarantee (see Table 1). A number of deficiencies were identified for these mechanisms:

#### <u>Deficiency</u>

#### 35 Ill. Admin. Code 724.251 and 40 CFR 264.151(f)

The facility failed to provide the proper language in its Letter From the Chief Financial Officer to demonstrate liability coverage and assurance of closure and post-closure care. Section 5 of the letter currently states "This firm is not to file...". The correct language is "This firm is not required to file...". Additionally, in Sections 1 and 4, the Letter should specify the word "None" in the paragraphs which do not apply to the firm's facilities.

#### Proposed Action

Provide a Letter From the Chief Financial Officer to demonstrate liability coverage and assurance of closure and post-closure care with the proper corrected language.

#### Deficiency

#### 35 Ill. Admin. Code 724.245 and 40 CFR 264.145

The facility failed to provide sufficient financial assurance for contingent post-closure care cost estimates. Contingent post-closure care cost estimates are \$1,710,000. Financial assurance for contingent post-closure care is provided in the amount of \$888,316 only.

#### Proposed Action

Provide increased financial assurance for contingent postclosure care in the amount of \$821,684 so that the total financial assurance provided is \$1,710,000.

#### Deficiency

### 35 Ill. Admin. Code 724.243(f)(1) and 40 CFR 265.143(f)(1)

The facility failed to demonstrate evidence of tangible net worth in excess of six times the sum of the current closure and post-closure cost estimates. As a result, it failed the financial test (Alternative 1) for closure and post-closure.

#### Proposed Action

Demonstrate that the firm's tangible net worth is in excess of six times the sum of the current closure and post-closure cost estimates, or provide an alternate financial assurance mechanism.

### <u>Deficiency</u>

#### 35 Ill. Admin. Code 724.243(f)(8) and 40 CFR 265.143(f)(8)

The facility failed to provide an explanation for the independent public accountant's qualified opinion with respect to non-consolidation of certain majority-owned subsidiaries.

#### Proposed Action

Provide an explanation as to why the independent public accountant's qualified opinion should not be grounds for disqualification for the financial test mechanism.

#### <u>Deficiency</u>

#### 35 Ill. Admin. Code 724.251 and 40 CFR 264.151(h)

The facility failed to provide the Corporate Guarantee for Closure/Post-Closure Care on the required IEPA form (LPC 155).

#### Proposed Action

Provide the Corporate Guarantee for Closure/ Post-Closure Care on the required IEPA form (LPC 155).

#### LIABILITY COVERAGE REVIEW

The facility provided Annual Aggregate Liability Coverage in the amount of \$8,000,000 on June 10, 1992 through the use of the Corporate Guarantee (see Table II). One deficiency was identified for this mechanism:

#### <u>Deficiency</u>

### 35 Ill. Admin. Code 724.251 and 40 CFR 264.151(h)

The facility failed to provide proof of Guarantee for Liability Coverage on the required IEPA form (LPC 271).

#### Proposed Action

Provide proof of Guarantee for Liability Coverage on the required IEPA form (LPC 271).

#### ANNUAL UPDATES

The Closure/Post-Closure Care Estimates were approved in 1992. The Contingent Closure/Post-Closure Care Estimates currently pending Agency approval are identical to the 1992 submission. Therefore, there are currently no annual updates to review.

#### ATTACHMENTS

Attachment A - Facility Checklist

Attachment B - Liability Checklist/Financial Test

Attachment C - Guarantor Checklist/Financial Test

# Attachment A FACILITY CHECKLIST

Facility Name:	: KEARNEY-NATIONAL I	NC. (IMEPC	Reviewed	by: <i>E (</i>	<u>T</u>
	: ILD085 352 474			Date: _/	115192
	ess: 210 W. OAKTON		165, IL	6001	7
	DYSON - KISSNER -		·		23-44-4-4
	: 230 PARK AVE. A				
Estimated clo	sure cost: \$ 91,000	Date	of estimate:	518	192
Estimated pos	st-closure cost: <u>\$ 1, 710, 00</u>	O Date	of estimate:	518	192
	adjustment factor:	WCD-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		<del></del>	
Total estimat	ed closure and post-closure costs:	\$ 1,801,000	<u>L</u> a	st adjusted	518192
Financia	al Assurance Mechanisms	I	Date Received:		
			Amount of	Validati	on
Mechanism	Guarantor Name & Address	Effective Date / /	~	Date /	
The State of the S	DYSON-KISSNER-MORAN				<del></del>
	DYSON-MISSNER-HORAN	11			
		/ /		/ /	
Every state of the		/ /	A-TINGTON - A-TING	/ /	4-5-Word-WristowS-Bran
Liabili	ty Coverage Mechanisms	Total Coverage \$	<u>979,316</u> Date Received		
Mechanism	Guarantor Name	Effective Date			ion Initials
		115.62	* O	61,451.00	
E.I.	DYSON-KISSNER-HORAN	615192			
			State-State Commence of the state of the sta		
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terminan commenter select til det det formen er en en en en en en en en en en en en en	BATTACHER WITH THE PROPERTY OF				<u> </u>
•		Total Coverage	,		
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- 4	, i	TAL CIGILITE COTT	or far Hal	ULITY WEVE	hoonas.
Attachments:					<del> </del>

# Attachment B

# LIABILITY CHECKLIST/FINANCIAL TEST

Owner or Ope	erator: KEARNE	Y- NATIONAL	INC CIME	<u>P Co)</u> Reviews	d by: <u>EP7</u>			
Address: 210 W. OAKTON, DES PLAINES IL 60017 Date: 9/15/92								
Chief financ	ial officer: $(X)$ Annu	al report ( ) Fo	rm 10-K (X)	Letter wording &	signatures			
Certified pu	Certified public accountant: (X) AICPA ( ) State CPA society ( ) Other:							
Accountant's opinion: Date $\frac{5}{126192}$ ( ) Unqualified ( ) Qualified ( ) Adverse ( ) Disclaimer								
Accountant's	s special report: Dat	e 615 19	<u>'Z</u> (X) Late	st fiscal year (	🖄 Confirms	CF0		
							,	
		FACILITIES COVERE	ED BY FINANCIA	NL TEST				
						PROVIDED	REQ'D	
Facility "	Annual Aggregate	Closure		Post-Closur		Total Cost	TOTAL COST	
EPA ID #	Liability Coverage	Current Estimate \$	Coverage \$	Current Estimate	: Coverage	Coverage \$	COVERAGE	
085 352 474	\$ 6,000,000	91,000	91,000	1,710,000	888,316	979, 316	1,801,000	
003 35 2 77 )	10,	<i>F1,000</i>	411 000	1, 10,000	1000,516	7/7, 310	110011000	
918 429 715	f		-		2764 120	2,754,138	2,754,138	
110 10; 110					011371130	2,137,130		
036 657 107	1					7 774 744	~ ~ ~ ~	
076 655 182	· ·				2, 590,720	2,390,720	6,390,120	
							CONTRACTOR OF THE PROPERTY OF	
	<u> </u>							
Total cost	coverage	-\$ 91,000	\$ 91,000	\$ 1,710,000	\$6,033,174	\$6,124,174	1	
Maximum anı	nual aggregate liabil	ity coverage	**-			8,000,000	8,000,000	
ω	age required for fina			· · · · · · · · · · · · · · · · · · ·		\$14,174,174	14,946,174	
Financial Te	est: Fiscal Year	1/92 (X)	Alternative I	( ) Alternativ	re II		Company Company	
		iii y	(Katio lest)	(Bona rat	NET	WORKING	Chathal	
FOLLOW-UP AC	CTIONS REQUIRED			DATE REC	UIRED	= 88,305	,000	
Annual revie	ew (90 days after end	of fiscal year)		4/30	0 193 VA	11CH 15 < 0		
COMPLIANC	E LETTER FOR	DEFICIENCIES	IN F.A.	/	·/ ,		( <b>8</b> 9,576,164)	
				/	/			
				·				
_	11,710,000 NEENE					,		
\$ 888,316	PROVIDED. FINAL	UCIAL ASSURAM	ICE SHORT	\$821,684; F	irm FAILE	U NET WO	<b>CKINP</b>	
CAPITAL .	TEST; ACCOUNTANT	OFINION IS	DUALIFIED N	1 RESPECT TO	NON-CON	SOLICATEL	)	
SuBSIDIFACI Attachments:	: (火) Letter from Chi (火) Accountant's op	. CORP. GUARAN ief Financial Offi inion (X) Accoun	cer		F LIABILITY	NOT PALO	vidEO.	
	( ) Other		····	-				

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# Attachment C

# GUARANTOR CHECKLIST/FINANCIAL TEST

Guarantor company: <u>DYSON</u>	-KISSNER-ME	PRAU CORP Reviewe	d by: EPT			
Address: 230 Park Ave. NEW YORK, NY. Date: 9/15/92						
Chief Financial Officer: (×) Annual Report ( ) Form 10-K (>) Letter wording & signatures						
Certified Public Accountant: (>	AICPA ( ) State CP	A Society ( ) Other:				
Accountant's Opinion: Date 5	. 126192 ( ) Unqu	alified (🔀 Qualified	( ) Adverse ( ) Disclaimer			
Accountant's Special Report: D	ate <u>6115192</u>	! (Ⅺ Latest Fiscal Year	(×) Confirms CFO			
Owner or operator: KEARU	SY-NATIONAL +	C. (IM ZPCO)	(LD 050 353 421			
Affiliation: ( ) Same Comp	any 🖄 Subsidiary, o	ver 50% owned ( ) Other	***			
Corporate Guarantee: Date:	/ / ( ) W		( ) Not required			
Facility	Current Cost	Estimates	Total			
EPA ID#	Closure	Post-Closure	Cost			
14D 085 352 747	\$ 91,000	\$ 1,710,000	\$ 1,801,000			
CAD 891 429 715	^	2, 754,138	2,754,138			
WAD 076 655 182		2,390,720	2,390,720			
TDTAL	\$ 91,000	\$ 6,854,858	\$ 6,945,858			
Financial test: Fiscal year _		Alternative I ( ) Alter Ratio Test) (Bond	native II -rating)			
FOLLOW-UP ACTIONS REQUIRED			ATE REQUIRED			
Annual review (90 days after e	nd of fiscal year)	· · · · · · · · · · · · · · · · · · ·	4 130190			
COUNLIANCE letter +	or deficiencier is	i F. A.				
Comments: FINANCIAL ASSO	DRANCE for post 1	closure care is	SHORT by \$ 821,689			
FORUS for Corporate Guar	pulse for closur	e, PCC and liabil	lity were our provided.			
ACCOUNTANT OPINION	QUALIFIED With	respect to NON-C	ONSOLIDATED wedgety-owned			
Attachments: (> Letter From ( ) Corporate Gu (> Accountant's ( ) Accountant's ( ) Other	arantee — Not f Opinion — QUAL	2ROU (DED				